

# LEONARDO SIGNORELLI STEVENS

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## CURRICULUM VITAE

### Education

- **Bachelor of Innovation Degree in Game Design and Development**  
University of Colorado Colorado Springs (UCCS), 2021.
- **Associate Degree in Computer Applications Programmer**  
Technological University of Chile (INACAP), Santiago, Chile, 2008.

### Personal Statement

Creative, talented, and innovative undergraduate student with professional expertise in Web Programming, Web Development, Data-driven Web Application Development, Web Design, Drupal CMS Architecture, and CMS theme development. Currently working full-time as a Web Programmer at UCCS in the Office of Information Technology department.

I have continuously strived to gain and improve my knowledge throughout all aspects of Web Development. I first learned how to develop websites in my Web Development class at INACAP, using HTML and CSS to design websites and then using PHP and ASP server-side programming languages to make the websites functional to create, read, update and delete (CRUD) SQL database tables. After I graduated from INACAP in 2008, I had my first professional experience as a Web Programmer in a Chilean company called WebTeam where I further increased my Web knowledge by developing and programming professional business websites for companies and individuals. The experience in WebTeam enabled me to deal with customers, mapping out their requirements and turning them into fully functional websites. Since then, I have worked on many personal and professional Web-related projects. I enjoyed overcoming problems and working to deadlines for clients.

### Academic Experience

#### Game Design & Development Core Courses

##### **GDD1100 Introduction to Game Development**

Introduction to basic game development topics through game design and implementation activities.

##### **CS2250 Advanced Data Structures in C++**

Advanced study of data structures and object-oriented concepts. Memory management concepts within C++ including pointers, arrays, constructors, destructors, templates, and threads.

##### **GDD2100 Game Design for Diverse Populations**

Explores the various game design decisions required when targeting games for various diverse populations. Considering gender, ethnicity, and other diversity dimensions through numerous game design projects.

**GDD2150 Fundamental Game Design Concepts**

Fundamental game design concepts, including character development, storytelling, game balancing, and general-level design principles.

**GDD4500 Online Game Development**

Topics include both the technical challenges associated with online games and gameplay issues such as forming an online community and developing effective player interaction models.

**GDD3400 Artificial Intelligence for Games**

AI techniques that are most important in game development. Finite State Machines, pathfinding, emergent behavior, and other pertinent topics.

**CS2300 Computational Linear Algebra**

Vectors, Matrices, 2D, 3D, and ND, Transforms and Graphics, Systems of Linear Equations, Eigenvalues/ Eigenvectors, Numerical Stability, and Linear Filters/Predictors.

**GDD4000 Game Engine Development**

In-depth exploration of 2D and 3D game engine architecture. State-of-the-art software architecture principles in the context of game engine design, investigate typical solutions used in real game engines and explore how genre impacts engine design.

**GDD3000 2D Animation**

Traditional straight-ahead and keyframe animation and multi-sprite rigging for two-dimensional characters. Adobe Photoshop, Adobe Animate, and Unity3D.

**GDD3000 3D Animation**

Techniques of 3D modeling, rigging, texturing, lighting, motion capture, and animation, scene planning, virtual camera angles, rendering, editing, and compositing. Autodesk Maya.

**CS3350 Team-Based Game Production**

Continue working on an existing game, starting from the end of pre-production and continue to Alpha, a milestone that consists of delivery to internal employees (team members) for testing.

**GDD3200 Team-Based Game Testing & Deployment**

Continue working on an existing game. Includes Alpha testing by team members, Beta testing, implementing changes to the game as required, and final deployment of the game.

**GDD4900 Commercial Game Development Practicum**

Design and develop a commercial-quality game available to the public for purchase or free play (<https://astralmemories.itch.io/cosmo-breaker>).

**Bachelor of Innovation Courses****ENTP1000 Introduction to Entrepreneurship**

Introduction to the process of turning an idea into a successful startup business. Basic aspects of a successful business and processes for creating a potentially successful business plan. Assess opportunities for venture/value creation, to address/identify risk in the startup process, and develop presentation skills to convince others of the potential success to implement the business entity.

**INOV1010 The Innovation Process**

Key components in the innovation process and examples of major innovations throughout history. Interdisciplinary nature of innovation. Group exercises focused on improving team dynamics, brainstorming, conceptual-block busting, and other creative and problem-solving activities.

### **BLAW2010 Business and Intellectual Property Law**

The legal significance of ideas, innovations, and start-up organizations. Focus on the issues of intellectual property, including patents, copyrights, and brand protection. Coverage of essential contracts and agents.

### **INOV2010 Innovation Team - Analyze and Report**

Sophomore-level course emphasizing team projects, research, analyzing data, and reporting. Teams meet outside of class hours with sponsor companies.

**Company:** University of Colorado Colorado Springs (Tenure-track faculty member in Health Sciences).

**Contact Name:** Dr. Morgan Lee. Email: [mlee@uccs.edu](mailto:mlee@uccs.edu). Phone: 719-985-8840.

**Scope of work:** Dr. Lee was looking for help in designing a game-based App focused on physical activity promotion with the help of a journey/quest that users play through by engaging in physical activity. Dr. Lee was conducting research on mood in relation to physical activity.

**Outcome:** Our team delivered a total of 47 highly detailed App screen mockups showing all the different screens within the App and clearly presenting how the users would interact with the App and engage in different physical activities.

### **INOV2100 Technical Writing, Proposals, and Presentations**

Addresses five major types of technical writing: project reports, funding proposals, magazine and trade articles, technical reports, and journal articles. Includes peer review and critical assessments of others' writings.

**Company:** Blue Lion Animal Sanctuary (<https://bluelionrescue.org>)

**Contact Name:** Lisa Kavanaugh. Email: [bluelionrescue@yahoo.com](mailto:bluelionrescue@yahoo.com).  
Phone: 719-332-4693

**Scope of work:** Lisa Kavanaugh needed more funds for her company, Blue Lion Animal Sanctuary, to provide a loving, secure, and comfortable home to dogs who have been abused, neglected, discarded for whatever reason, and who are usually deemed un-adoptable by the average pet seeking household.

**Outcome:** Our team first researched for the best grant that Lisa could apply for, to help offset the costs of rescuing animals who are homeless or victims of human cruelty, which was perfectly aligned with the "American Humane Second Chance" grant objectives. Our team also wrote for her the complete application including all the required information and paperwork so Lisa could simply apply for the grant.

### **INOV3010 Innovation Team - Research and Execute**

Junior level continuation of the teams course sequence with advanced participation in team projects including research, design, and execution. Teams meet outside of class hours with sponsor companies.

**Company:** The Global Z Recording Project (<http://www.globalzrecording.org>)

**Contact Name:** Dr. Bill Lord. Email: [globalzrecording@gmail.com](mailto:globalzrecording@gmail.com).  
Phone: 719-659-3374

**Scope of work:** The Global Z Recording Project needed an Internet/Cloud-based Microphone Analysis Database and Multimedia Repository. They collected data on how different microphones respond when recording a variety of instruments. The organization records a wide range of musical genres. As such, having a mic characteristics database

populated with text-based information, photos, and mp3 storage/retrieval will assist them with anticipating the mics they might need for each music project.

**Outcome:** I used my web development skills and together with my team, we delivered the microphone database site using WordPress. Because of the easy user interface that WordPress offers, our client could easily manage the DB and upload new microphones. We uploaded the existing microphone information into categories, with meaningful tags, pictures, descriptions, and mp3 sounds. The system offers an easy search feature to quickly find microphones by tags, categories, and descriptions. We also created video tutorials and a manual document that teaches our client how to manage the database (<http://www.globalzrecording.org/microphonedatabase/>).

### **INOV4010 Innovation Team - Design and Lead**

Senior level continuation of the teams course sequence with emphasis on design and leading team projects. Teams meet outside of class hours with sponsor companies.

**Company:** Flow Caregiver Coaching (FlowCaregivercoaching.com)

**Contact Name:** Dr. Kristine Hembre. Email: [kristine@flowcaregivercoaching.com](mailto:kristine@flowcaregivercoaching.com).  
Phone: 719-434-8282

**Scope of work:** Dr. Kristine Hembre's business has evolved into a niche where she is very competent and excited to hold. Her challenge is reaching out to the clients and programs that would benefit from the services she offers. Dr. Hembre already had a website FlowCaregivercoaching.com (Now <https://medprocoaching.com/>), but she needed other ways to get her message of "mindful giving, healthy living" out there to individuals and groups providing care to others. This includes workers in the medical care industry (doctors, nurses, pharmacists, etc) that are experiencing burnout and home care workers whether working with a loved one or as an employee.

**Outcome:** Our team helped Dr. Hembre in creating engaging content for her business social media accounts. We delivered a total of 34 graphics with positive messages. We recorded a professional 2-minute video with chroma backgrounds where Dr. Hembre offers her services, this video was uploaded to her YouTube account. We also organized an event held at the University tailored to people that could benefit from her services.

### **Skills and Competency**

- **Web Development:** HTML, CSS, PHP, JavaScript, jQuery, Bootstrap, JSON, JAML, Composer, Twig.
- **Virtual Machines and Development Environments:** Virtual Box, Vagrant, Laravel Homestead.
- **Linux Shell Scripting Languages:** Bash, Python, PHP.
- **Database:** SQL Scripts, MySQL, MariaDB.
- **Content Management Systems (CMS):** WordPress, Drupal, and Drush commands.
- **Enterprise Drupal Cloud Hosting:** Acquia.
- **Programming Languages:** C++, C#, Python.
- **Game Design & Development:** Unity, Game Maker, HTML5 Canvas.
- **Graphic Design, Audio, and Video Production:** Krita, Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Ableton Live, Pro Tools.
- **Operative Systems:** Windows, Mac OS, Linux Distribution (Debian, Ubuntu, Linux Mint, CentOS 8).

## **Related Experience and Employment**

**Web Services (UCCS OIT Department) Colorado Springs, CO.      January 2019 - Present**

**Back-end Drupal Developer/Architect, Web Programmer, and Web Designer** in charge of the initial creation, development, upgrade, and maintenance of the Acquia Drupal multisite codebase platform, execute Drupal core and modules updates each week, search and install new modules and develop new custom modules to help manage all 250+ Drupal sites. Tasked with the migration of all our Drupal sites from UCCS on-premises servers to the Acquia Cloud Site Factory Drupal host solution. Customization of existing Drupal themes and creation of new Drupal and WordPress themes following Marketing requirements and guidelines. Development of new Drupal content types and media types to improve the delivery of visually appealing, functional, and intuitive content on all sites.

**Web Applications Developer/Programmer**, in charge of the design, development, programming, and maintenance of internal and external UCCS websites. Use knowledge of common web development languages (e.g., HTML, CSS, JavaScript, jQuery, PHP, Python, SQL) to build and expand site functionality. Create and enhance the overall website appearance using graphic/multi-media design software and designs site navigation that is clear and easy to understand. Ensures sites remain scalable while complying with performance and security standards. Additionally, update site content based on input from marketing and our clients.

**Web Services (UCCS OIT Department) Colorado Springs, CO.      December 2017 - December 2018**

**Student Worker Web Programmer and Web Designer** in charge of the maintenance and updates of all the websites from the different departments of UCCS. Resolve clients' tickets with requested updates on their websites using the IT service management software "Cherwell". Guide and train our clients by email or phone on how to properly use Drupal to edit and add content to their websites. Fix broken links, missing documents and ensure accessibility in all UCCS websites using the all-in-one website management software "Siteimprove".

**Milberger Farms (M & D EQUIPMENT LLC.) Pueblo, CO.      April 2015 - February 2018**

**Produce Manager** in charge of the supervision and coordination of the store staff. Sales increase through the creation of special offers. Customer service, answering customer questions, filling special customers' orders, and solving complaints. Recruitment and training of new employees. Responsible for ordering, receiving, and selling produce.

**Webmaster.** Design and development of the store's website. In charge of supporting and maintaining the company's information, computer files, and website ([www.milbergerfarms.com](http://www.milbergerfarms.com)).

**Social Media and Advertising Manager** in charge of creating engaging content for the company's social media presence (Website, Facebook, and Twitter), keeping social media channels and website updated. Responsible for the creation of digital content to promote new sales and offers to increase sales through the design of digital content, such as banners, flyers, and posters. In charge of the design and creation of the weekly advertisement for the local Thrifty Nickel newspaper, and the recording of radio advertisements in Spanish for the Latino radio "Tigre FM (104.9)" to attract more Hispanic customers and increase sales.

**TRANSMISSION (Backstage Rockstore S.A.) Santiago, Chile. November 2013 - February 2015**

**Co-Administrator** in charge of finance and operations. Administration/rental of rehearsal studio rooms and audio equipment. Assist in the booking and production of concerts and events.

**Webmaster** in charge of supporting and maintaining the company's information systems, computer files, and company's website.

**PUFF (Westone Distribution), Vancouver, Canada. June 2012 - September 2013**

**Warehouse Assistant** in charge of receiving and storing items in an orderly and accessible manner in the warehouse, order filling by picking and packing products for shipment. Clean and maintain supplies, tools, equipment, and storage areas. Engaged in maintaining stock records of the warehouse.

**BACKSTAGE ROCKSTORE (Backstage Rockstore S.A.), Santiago, Chile.**

**February 2010 - May 2012**

**Supervisor** in charge of finance and operations. Administration and rental of rehearsal studio rooms and audio equipment. Assist in the booking and production of concerts and events.

**Webmaster** in charge of supporting and maintaining the company's information systems, computer files, and company's website.

**Web Team, (Desarrollos Informaticos Figueroa Martinez Ltda), Santiago, Chile.**

**June 2009 - January 2010**

**Web programmer:** Development and programming of business websites for companies and individuals, SQL, cPanel, HTML, PHP, and ASP programming. Daily web support and maintenance to corporate customers and individuals. Create and maintain databases, analyze data, create presentations, and generate reports.

**Computer Services (Freelance), Santiago, Chile.**

**August 2008 - December 2009**

**Computer Technician.** Provide technical support and maintenance to individuals and small size companies. Custom PC Configuration for required tasks, installation of special software to fulfill client's needs. Data backups, and virus protection. Creation of viable layout and design work for commercial websites.

**Yogen Fruz, (Fruzco Chile S.A.), Santiago, Chile.**

**January 2006 - May 2007**

**Team Member.** In charge of store sales, taking orders, handling payments, inventory, and daily revenue (cashier). Prepare and store food ingredients, assemble food and beverage orders. Implemented and assured compliance to the existing company's policies and procedures. Maintenance of a clean and safe working environment.