

# DAVID GESL

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## Education

### Oregon State University

Bachelor of Science in Computer Science and Economics (Double Major)

Expected June 2027

Corvallis, OR

- **Coursework:** Software Engineering I/II, Web Development, Databases, Data Structures, Algorithms, Machine Learning, Data Science, Operating Systems, Computer Networking, Adv. Micro-Econ, Financial Econ, Game Theory

## Work Experience

### Software Developer

OSU Center for Applied Systems and Software

May 2025 – Current

Corvallis, OR

- Modernized the C#/.NET 4.8 MVC build chain—replaced Grunt with MSBuild + Webpack 5/ts-loader, and upgraded React/TypeScript packages, cutting front-end build time and easing future upgrades.
- Enabled multi-year & ranged-year reporting for multiple reports by refactoring year-parsing into a shared C# utility and extending SQL Server + Entity Framework queries, eliminating manual data stitching for researchers.
- Drove a 7x performance boost (Largest Contentful Paint 5.51s to 0.75s) by removing legacy Offline.js, optimizing the .NET MVC page lifecycle, and fixing back/forward navigation hangs, greatly improving site responsiveness.

### Undergraduate Learning Assistant (CS 361: Software Engineering 1)

January 2025 – March 2025

Oregon State University - School of Electrical Engineering and Computer Science

Corvallis, OR

- Assisted in teaching and mentoring a class of 80+ students, covering foundational software engineering principles such as software development life cycles, Agile methodologies, GitHub and project management.
- Provided detailed feedback on term-long team projects and weekly formative assignments, ensuring students grasped software design, requirements engineering, and software documentation.

### Software Developer Intern

June 2024 – September 2024

Resimplifi Inc

Remote

- Developed a web scraper to gather 1200+ contacts, automating manual tasks and reducing data entry time, saving the sales team an estimated 15+ hours per week.
- Developed various web scrapers to gather over 2000 properties while accurately formatting & categorizing property info.
- Collaborated with teammates to debug and refine web scraping scripts.

### Software Developer Intern

February 2024 – June 2024

Oregon State University - College of Business

Corvallis, OR

- Designed and led the development of a full-stack Retrieval-Augmented-Generation (RAG) pipeline using LlamaIndex and ChromaDB, to power a chatbot resource for first-year business students.
- Collaborated with a 6-member team and stakeholders to define requirements and track progress via bi-weekly meetings.

## Projects

### Roam – Wi-Fi Paywall | Raspberry Pi, Go, iptables, DHCP/NAT, llama.cpp, Stripe

October 2025

- T-Mobile Track Winner (DubHacks 2025): shipped end-to-end payment → webhook → Pi polls backend → iptables-based gating; issues time-boxed, MAC-bound access with auto-revoke; presented architecture/security.
- Built a carrier-router proof-of-concept with a Raspberry Pi in AP mode, sharing venue uplink via NAT and enforcing Stripe pay-to-join at the network edge via iptables (dnsmasq for DHCP).

### Fraud Detection Simulation Pipeline | Python, Flask, Scikit-learn, Docker, PostgreSQL, AWS EC2

July 2025

- Built a real-time fraud detection pipeline using Python, Flask, and scikit-learn to simulate and classify financial transactions.
- Engineered a backend with REST APIs, Docker, and PostgreSQL; deployed to AWS EC2 with CI/CD via GitHub Actions.

## Leadership Experience

### President

February 2023 – Current

Real Estate Club at OSU

Corvallis, OR

- Collaborated with industry professionals, securing 3-5 guest speakers a term to share insights.
- Prepared and delivered on market trends, investment strategies, and tax savings to 20+ weekly members.

## Technical Skills

**Languages:** Python, C/C++, TypeScript, JavaScript, C#, SQL, HTML/CSS.

**Databases:** SQL Server, MySQL, MongoDB.

**Frameworks/Libraries:** .NET Framework, Entity Framework, React, Flask, LlamaIndex, ChromaDB, BeautifulSoup, Scrapy, Selenium, Pandas, Scikit-Learn, Jest.

**Developer Tools:** Git, GitHub Actions, Docker, MSBuild, Webpack, VS Code, Visual Studio, AWS EC2.