

CARSON SECREST

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Education

Oregon State University

Expected December 2026

Bachelor of Science in Computer Science - GPA: 3.97

Corvallis, OR

- **Relevant Coursework:** Algorithms, Data Structures, Software Engineering, Web/Mobile Development, Databases, Cloud Applications, Machine Learning, Operating Systems, Usability Engineering, Networks, Security
- **Organizations:** Association for Computing Machinery (Officer), App Development Club (2x Hackathon Winner)

Work Experience

Netflix

June 2026 – September 2026

Software Engineer Intern

Los Gatos, CA

- Spearheaded the CI test execution pipeline for Netflix's internal UI platform serving **300+ apps across 20+ teams**
- Created a **Claude Code developer tool** for 100+ authors to detect backend-mutating requests, scaffold E2E suites, and generate API mock contracts, protecting **60+ Tier-0/1 Commerce workflows** during a large-scale migration
- Safeguarded production releases by engineering **Jenkins CI jobs** to execute Playwright test suites, gate pull request merges on failure, and surface actionable traces and failure artifacts directly into review comments

Workiva

June 2025 – September 2025

Software Engineer Intern

Ames, IA (Remote)

- Delivered production fixes for 20+ defects across a Sustainability platform supporting **940+ enterprise clients**, resolving UI state, DataGrid filtering, and input validation issues to ensure accurate data collection
- Raised platform test coverage to **90%** by writing **100+ unit and functional tests** with React Testing Library
- Engineered **AWS SQS dead-letter queues** in Kotlin/Java Spring Boot, preventing migration halts on failing records

Center for Applied Systems and Software (CASS)

May 2024 – June 2025

Software Developer

Corvallis, OR

- **Led a team of 8 developers and researchers** to build the Rx Product Market Orchestrator, a React platform with containerized Flask microservices, presented at **ASME 2024** for innovations in healthcare supply chain logistics
- Configured and managed PostgreSQL and MongoDB alongside ASP.NET Core 8 and Flask microservices in Docker
- Built a secure, scalable user authentication system using Azure AD B2C, MSAL, and OpenID Connect

Projects

Real-Time Pose-Tracking Game | React, MediaPipe, WebSockets, Cloudflare Workers

[Demo](#) | [Repository](#)

- **Placed 3rd** among 70+ teams and 250+ participants at QuackHacks with a real-time motion-controlled game
- Converted MediaPipe landmarks into joint-angle rotations for pose tracking that required zero per-player calibration
- Synced live multiplayer state via WebSockets on Cloudflare Workers for low-latency gameplay across both players

Sound-Direction Wearable | Raspberry Pi, Python, Gemini, WebSockets

[Demo](#) | [Repository](#)

- **Won Best Use of Gemini** at BeaverHacks among 100+ teams with an assistive wearable for single-sided deafness
- Built a full-stack pipeline processing live 360-degree mic array data into direction-of-arrival estimates, streamed via WebSockets to a real-time HUD, with Gemini as an async reasoning layer flagging urgent or user-directed sounds

Movie Guessing Game Website | React, TypeScript, MongoDB, AWS

[Demo](#) | [Repository](#)

- **Won BeaverHacks Winter 2024** among 40+ participants with a full-stack movie trivia game backed by an Express/Node.js server, fetching movies from TMDB's API and persisting game records in MongoDB
- Deployed the API service on AWS EC2, stored files in AWS S3, and used CloudFront CDN for quick response times

Technical Skills

Languages: Java, Kotlin, TypeScript, JavaScript, Python, C, C++, C#, SQL

Frameworks: Spring Boot, Node.js, Express.js, Flask, ASP.NET Core 8, React Native

Libraries: React, Redux, MediaPipe, Playwright

Databases: PostgreSQL, MongoDB, MySQL, Firebase

Developer Tools: Claude Code, Git, Docker, Linux, Postman, AWS, Jenkins, Spinnaker