

OSBALDO ARELLANO

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EDUCATION

Oregon State University | Computer Science, Cybersecurity Focus

2021-2025

RELEVANT COURSEWORK

Cryptography (CS 427), Computer Networks (CS 372), Computer Networks (CS 372)

Operating Systems I & II (CS 374, CS 444): Developed complex OS components in C, including a custom shell for process management, OTP encryption, memory translation, and socket programming. Extended JOS with a custom bootloader in assembly, user-space programs, breakpoints, memory management, hardware API integration, and concurrent process handling.

WORK EXPERIENCE

Internship Ambassador | The Script (The Contingent) | Oregon State University

Oct. 2024 - Present

- Responsible for recruiting BIPOC students into The Script's internship program through strategic outreach and collaboration with university departments and student organizations.

DevOps Engineer Intern (Two Summer Internships) | Trimble | Portland, OR (Remote)

Jun. 2023 - Sep. 2024

- Technology stack:** C#, Azure DevOps, Azure Portal, Azure Pipelines, SQL Server, PowerShell, Kubernetes.
- Automated the deployment and configuration of Windows 11 environments using C# within the Infrastructure as Code (IaC) app, installing Vista Viewpoint Construction software, security applications, and .NET environment setup for provisioning on Azure VMs.
- Developed an Azure Pipeline to dynamically retrieve VMs for colleagues in India and configure their local SQL environment based on their work location (local or remote). Implemented SQL and PowerShell scripts to adjust directory paths in database entries, resolving issues caused by environment-specific path mismatches.

Software Engineer (University-Sponsored Internship) | Sports Betting Startup (Remote)

Sep. 2023 - Jun. 2024

- Technology stack:** Go, Angular, Docker, AWS Lambda, AWS RDS, GitHub Actions.
- Architected the CI/CD pipeline and backend infrastructure in Go using GitHub and AWS services.
- Integrated front-end components with Angular and optimized CSS for responsive design, ensuring a mobile-first experience.

HRIS Backend Software Engineer Intern | Trimble | Portland, OR (Remote)

Jun. 2022 - Sep. 2022

- Technology stack:** .NET, Angular, SQL Server, Docker, Azure.
- Developed an auditing system for HR administrators to view historical changes, improving data traceability.
- Implemented pagination in RESTful APIs to efficiently handle large data sets, improving performance for HR operations.

PERSONAL PROJECTS

BlueLifeLabor.com | Netlify, JavaScript, HTML, CSS, Bootstrap

- Designed, developed, and deployed a responsive mobile-first website for a business with 80 employees.
- Worked closely with client to identify project requirements, and successfully delivered all requirements.

Kubernetes Platform | Azure AKS, Terraform

- Deployed a cloud platform using Azure AKS with Terraform, establishing a secure and scalable Kubernetes environment.

CLUBS AND AWARDS

Society of Hispanic Professional Engineers, U.S Hispanic Leadership Conference Oregon representative.