

Salim Mohamed

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EDUCATION

Oregon State University

Bachelor of Science in Computer Science, Focus in Machine Learning & AI

Corvallis, OR

Expected June 2026

WORK EXPERIENCE

Software Engineer Intern

June 2024 – Aug 2024

Avaza Language Services

Portland, OR

- Delivered a production-ready employee form system with real-time updates and row-level security, enabling staff to process 1,000+ service requests per month without data conflicts
- Replaced manual Google Sheet call logs with a secure web portal (Flask → Next.js + Supabase), cutting call-logging time by 70% and eliminating spreadsheet errors across a team of 15+ staff
- Designed role-based access and audit logging features, ensuring compliance with state data policies while reducing accidental data edits by staff

Community Outreach High School Intern

June 2018 – Sept 2018

Portland Parks & Recreation

Portland, OR

- Wrote Python scripts to automate data entry tasks and organize volunteer information, processing 150+ volunteer records
- Created Excel spreadsheets and Google Sheets templates to track event attendance and participation across 50+ community programs
- Assisted with data analysis using Python and Excel to generate reports for community outreach programs

PROJECTS

Real-Time Memory Analysis Engine | C++, DirectX, Win32 API

April 2025 – Present

- Architected C++ low-level system application with DirectX 11/12 overlay rendering and Win32 API hooks for real-time process monitoring and security bypass, processing 10,000+ events per second
- Implemented modular ESP system with artificial intelligence algorithms for configurable player visualization, 3D coordinate transformations, and real-time memory reading using DMA techniques, achieving 95% detection accuracy
- Designed machine learning prototypes with JSON serialization, tabbed GUI interface using Windows Forms, and modular plugin architecture, reducing configuration time by 60% and improving system performance by 40%

Full-Stack Financial Trading Platform | React, TypeScript, Flask, Finnhub API, Vercel

July 2025 – Present

- Architected full-stack fintech application with machine learning algorithms using React 18/TypeScript frontend, Flask REST API backend, and Finnhub financial data API integration, processing 1M+ data points daily
- Implemented automated alert system with artificial intelligence algorithms for price threshold monitoring, portfolio tracking, and market leader analysis using JSON file storage and WebSocket connections, achieving 90% prediction accuracy
- Built responsive SPA dashboard with JWT authentication, machine learning prototypes for alert management, and portfolio visualization, achieving 70% faster response times and 50% improved user engagement

World of Warcraft Analysis System | Python, CSV Processing, Data Analytics

May 2025 – Present

- Engineered Python ETL pipeline using object-oriented programming with abstract base classes, inheritance, and polymorphism to process 10,000+ unstructured game log lines into structured CSV reports, reducing processing time by 80%
- Implemented boss-specific analysis modules with machine learning algorithms for player death tracking, attempt duration calculation, and non-player mistake identification using defaultdict data structures, achieving 85% accuracy in failure prediction

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, Go, C#, JavaScript, TypeScript, SQL (Postgres), HTML, CSS

Data & Graph: SQL/NoSQL Databases, PostgreSQL (ACID transactions), Supabase (Postgres), MongoDB, SQLite, Graph Databases (Neo4j, TigerGraph), Kafka

Developer Tools: Git, GitLab, Docker, Kubernetes, AWS, Google Cloud Platform, Vercel, GitHub Actions, GitLab CI, React, Next.js, Tailwind CSS, Flask, DirectX 11/12, Win32 API, Linux