

# Salim Mohamed

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## EDUCATION

**Oregon State University** Corvallis, OR  
*Master of Science in Computer Science* Sep 2026 – June 2028

**Oregon State University** Corvallis, OR  
*Bachelor of Science in Computer Science, Focus in Machine Learning & AI* Sep 2022 – June 2026

## EXPERIENCE

**Software Engineering Intern** Sep. 2023 – June 2024  
*Avaza Language Services* Remote

- Developed Python automation scripts to convert 500+ Excel spreadsheets monthly, reducing manual processing time by 60% and streamlining client onboarding workflows
- Built automated testing suites covering 95% of codebase and implemented data processing pipelines that improved operational efficiency by 40%
- Collaborated with cross-functional teams to deliver 15+ user-facing features that enhanced client experience for 200+ daily users

**Community Outreach Intern** June 2018 – Sept 2018  
*Portland Parks & Recreation* Portland, OR

- Assisted with 25+ community events and park programs while learning Excel automation and spreadsheet management
- Created automated spreadsheets with 20+ formulas and macros to track 150+ volunteer participants and 50+ event attendance records
- Gained experience working with diverse community members and understanding public service operations, sparking interest in using technology to improve community engagement

## PROJECTS

**Foresight: Trading Insights** | *Python, Next.js, TypeScript, Financial APIs* July 2025 – Present

- Developed a full-stack trading dashboard processing 1000+ stock data points daily with real-time monitoring and automated alert systems
- Built a Flask REST API with 12+ endpoints integrating Alpha Vantage and NewsAPI, able to handle 500+ daily requests for financial data processing and email notifications
- Created a modern Next.js frontend with TypeScript and Tailwind CSS supporting 50+ concurrent users for portfolio tracking and market analysis

**DMA Memory Analysis** | *C++, System Architecture, Memory Analysis, Cybersecurity* April 2025 – Present

- Developed a C++ application using Direct Memory Access (DMA) for real-time memory analysis of processes in ethical cybersecurity research
- Implemented memory manipulation techniques and integrated 3 industry-standard libraries (PCILeech, MemProcFS) to build a comprehensive memory analysis platform with 99.5% accuracy in process detection

**Log Analysis Parser** | *Python, Data Analysis, Automation, Git* May 2025 – Present

- Engineered a Python parser to automate analysis of 10,000+ lines of World of Warcraft raid log entries, converting unstructured text into structured CSV reports with 95% accuracy for strategic review
- Designed a modular, object-oriented architecture with 8+ reusable components to ensure maintainability and allow for easy extension for new game content

**Discord Auto-Responder Bot** | *Python, Discord.py, CustomTkinter, GUI Development* Aug 2025 – Sept 2025

- Developed a sophisticated Discord self-bot with CustomTkinter GUI interface supporting 50+ concurrent keyword triggers and role mention detection
- Implemented multi-threaded architecture with channel filtering, rate limiting (0-30 minute delays), and JSON-based configuration management with 20+ users currently for gaming community interactions

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL (Postgres), HTML/CSS, R

**Frameworks & Libraries:** React, Node.js, WordPress, Next.js, NumPy, Matplotlib

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, MongoDB, CRM Software

**Security:** Penetration Testing, Memory Analysis