

# EMMANUEL ARTHUR



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Portland, OR

## SUMMARY

Master's student at Portland State University in Computer Science with focus areas in Cybersecurity, AI, Software Engineering, seeking a Summer 2026 internship to apply my education and my background in Python automation/development or ServiceNow software development, and to expand my expertise in Cybersecurity, AI and Software Engineering while delivering measurable impact through intelligent, secure, and scalable systems.

## EDUCATION

**Portland State University** - Master of Science - Computer Science

**Portland, OR** 2025-2027

**Reed College** - Bachelor's of Arts - Computer Science

**Portland, OR** 2018-2022

## PROJECTS

### Business Impact Simulator application

**Ongoing, multi-phase project**

- Building an AI-powered application that first classifies a project into the appropriate industry area(s) based on its descriptions, papers, and documents, then uses analytical and intelligence-based tools to generate both textual and graphical narratives of the project's impact on real or hypothetical companies, including long-term, industry-level effects. The current version of this project is available on GitHub under the name "Business Impact Simulator."

### Business Impact Simulator application (Retail)

**Expected completion:** December 2025

- Will soon build a small subset of the larger business impact simulator project as a final MVP project for my ongoing Internet, Web and Cloud systems class. This will focus on projects in the field of retail and use various backend APIs to generate their simulated impact on a fictitious/real business entity and the field of retail at large in the long term.

## WORK EXPERIENCE

### BlackRock —Analyst, Aladdin Engineering & Tech Support

**Wilmington, DE** May 2023 - July 2025

- Engineered production-grade automation and observability solutions across BlackRock's Aladdin platform while supporting global teams in troubleshooting and system reliability. Delivered multiple projects which included a URL-encoding automation for secure file transfers, enhancements to Kubernetes configuration pages, and a ServiceNow AI inventory system for tracking machine-learning use cases. The projects used Agile methodologies, Python, Java, and JavaScript tooling, integrated through Azure DevOps pipelines for testing and deployment. These projects were completed in collaboration with DevOps, Compliance, and Private Markets teams and improved workflow automation, deployment reliability, and data governance, while providing OS testing and user support for 2,000+ employees.

## SKILLS

**Core CS Fundamentals:** Algorithms & Data Structures, Operating Systems, Networking

**Languages:** Python, C/C++, Javascript, Java, Bash

**Frameworks & Libraries:** Bootstrap, Python unittest

**Systems/Infrastructure:** Linux, Networking, Operating Systems, Systems Administration

**Development & Automation Tools:** ServiceNow, Blue Prism, JIRA, SonarQube

**Databases & Querying:** MySQL, SQL

**Cloud & DevOps :** Git, Azure DevOps, Kubernetes

**AI & Development Tools:** GitHub Copilot, Microsoft Copilot, ChatGPT, OpenAI APIs, Claude, Prompt

Engineering, Data Processing for Machine Learning

