Nicholas Araj

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Education

Oregon State University **Expected Summer 2025**

B.S. Computer Science | Applied Data Science Option ***GPA: 3.79***

Coursework: Algorithms, Data Structures, Operating Systems, Database Management, Data Mining & Machine Learning, Web Development, Cloud App Development, Parallel Programming, Computer Networks, Cybersecurity, Software Engineering Principles, Architecture & Assembly Language, Linear Algebra, Discrete Mathematics, Statistics

Work Experience

Seeq Corporation **June 2025 – Present**

Software Engineer Intern *Remote*

- Maintaining and enhancing **Python** packages that support advanced analytics, pattern detection, and machine learning, including development of interactive **data visualizations** for industrial use cases.
- Contributing to the **Seeq Data Lab** platform, an interactive Jupyter-style environment, empowering engineers and data scientists to explore process data through the **SPy SDK** and **Seeq Workbench**.
- Supporting end-to-end full-stack solutions using **React**, **TypeScript**, **Python**, **Java**, and **Kotlin** to extend Seeq's extensibility and automation toolkits.

Intel Corporation **April 2024 – June 2025**

Software Engineer Intern *Aloha, OR*

- Contributed to a 5–10 person team developing the **Manufacturing Readiness Indicator**, a web application built with **Django**, **Angular**, and **Microsoft SQL**, used annually by **1,100+ Intel Foundry** managers and stakeholders to enhance operational reporting and tracking.
- Delivered frequent full-stack updates across admin tools and UI components, including new features, performance improvements, exportable data options, and enhanced accessibility — helping boost user engagement by **190%** and cut load times by **40%**.
- Independently designed and deployed a **Python**-based analytics system that scraped **Django logs** and queried Intel's employee database to track app usage by **location**, **time**, and **failure metrics**, visualized in a real-time **Plotly/Angular** dashboard used by **20+ developers and managers**.
- Enabled visibility into performance anomalies and crash-prone endpoints by monitoring API response times, user activity trends, and usage across Intel's global campuses.

Projects

Healthcare Cost Transparency App **Sep. 2024 – Present**

Django | Next.js | PostgreSQL | OpenAI API

- Developing a healthcare cost transparency app using **Python**, **Django**, **Next.js**, and **OpenAI API** to parse and simplify complex **JSON** healthcare pricing data.
- Features include a chatbot, cost map visualizations, and exportable data via **Supabase-hosted PostgreSQL**.

Tarpaulin Course Management Tool **May 2024 – Jun. 2024**

Python | Google Cloud | Auth0 | REST API

- Built and deployed a secure, role-based course management REST API with **13 endpoints** on **Google App Engine** using **Python** and **Google Datastore**.
- Implemented **JWT-based authentication** with **Auth0** and cloud file storage via **Google Cloud Storage**; supported avatar uploads, course enrollment, and full CRUD functionality.
- Designed data models and deployed a scalable API backend for admins, instructors, and students.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, Kotlin, Java, HTML/CSS, C/C++, R

Frameworks & Libraries: Django, React, Next.js, Angular, Node.js, numpy, pandas, Plotly, Matplotlib

Databases: Microsoft SQL Server, PostgreSQL, SQLite, MongoDB, MariaDB

Tools & Technologies: Git, Jira, Azure, Supabase, Docker, Unix/Linux, Agile, Unit Testing

Leadership & Activities

Multiple Engineering Cooperative Program (MECOP) intern at Intel and Seeq; held leadership roles in Phi Kappa Psi, including Head of Community Service and Alumni Relations.