Seoyeong Oh

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Skills

- **Proficient** Java, Python, C/C++, Spring Boot
- **Familiar** SQL, MySQL, JavaFX, Flask, JSON, JWT, OAuth2, API, RESTful API, Git, GitHub, Pandas, Maven, Tableau, C#, .NET, Networking, MS Graph API, Linux, Unix, React
- **Experience** PostgreSQL, Azure, Angular, JavaScript, TypeScript, Tailwind, NextJS, Node.js, Figma, HTML/CSS, D3.js, AWS, Docker, Shell, PyTorch, MATLAB, JIRA, Trello

Experience

10/24 - **Drive Insight: Software Engineer Intern**
Build a product dashboard website for Drive Insight that effectively integrates vehicle compatibility features through a RESTful API, ensuring users have immediate access to essential information
- NextJS, React, TypeScript, Tailwind

05/24 - 08/24 **General Motors (GM): Software Engineer/Developer Intern - Entra ID Config Tracker**
Developed an Entra ID Configuration Tracker that retrieves application delta changes and owner information from Microsoft Graph APIs and GM internal API, implementing OAuth2 for authentication and authorization, storing data in databases, and displaying it to users with role-based access control
- Java Spring Boot, JWT, MS Graph API, OAuth2, Angular, JSON, HTML/CSS, GitHub

05/23 - 08/23 **GM: Software Engineer Intern - Test Drive Automation/Real-time Dashboard**
Enhanced GM software testing platform by streamlining tools and processes, eliminating third-party tracking services, and creating a dynamic dashboard to track issues and surveys, using machine learning algorithms to categorize and assign issues based on optimization subject areas
- Python, Flask, Dash, Pandas, API, HTML/CSS, JSON, GitHub, Figma, Miro

05/23 - 08/23 **SolarSPELL: Computing for Good** (supported by Google Research)
Developed a machine learning solution to recommend library resources using data from soil sensors and presented it to Google

09/22 - 05/23 **ASU: Staff - Fulton Accelerated Community Engagement**
Built and deployed leadership skills through close connections with faculty and industry mentors, engaging in diversity, equity and inclusion workshops

05/22 - 07/22 **ASU & National Science Foundation: Denoising with Neural Networks Research**
Analyzed and visualized data, presented machine learning techniques to solve classification problems, and explored various approaches, utilizing neural networks to denoise and classify images
- Python, Pandas, PyTorch, Anaconda, CNN, MATLAB

Projects

- **DigiClips Media Search Engine** - Capstone
Have enhanced features of an in-production application monitoring media mentions and developed an Angular Error Messaging System for real-time alerts, detailed logging, and minimizing downtime
- Angular, TypeScript, Node.js, OpenVPN, MySQL, Docker, GitHub

- **Intel: Data Analysis for Sustainability Project** - Data for Coding
Developed SQL queries to investigate problems and make data-driven recommendations to support Intel team decisions for the new data center location
- SQL, Tableau

- **Grammy Awards: Website Audience Analysis** - Data for Coding
Led the analysis and visualization of performance metrics for the Grammy Awards website in relation to content and audience strategy
- Python, Pandas, Numpy, Plotly

- **Pediatric Doctor's Office Automation System** - Intro to Software Engineering
Developed a Java-based GUI desktop application for an Office Automation System digitalizing the process of recording patient's information, including a messaging platform for users
- JavaFX, GitHub, Jira, Astah, Junit

- **Vehicle Management System -** Introduction to Programming Languages
Created a Vehicle Management System incorporating key object-oriented programming, creating child classes for vehicles, dynamic binding, and a menu-driven program for managing vehicle details
- C++, OOP, Inheritance, Polymorphism, Encapsulation

Education

Arizona State University
- Computer Science M.S., B.S., GPA 4.0, IEEE *Eta Kappa Nu*

Certificates

LinkedIn Learning
- Big Data Analytics with Hadoop and Apache Spark
- Learning Relational Databases
- PostgreSQL Essential Training
- Integrate Microsoft Graph in Your Applications
- Angular: Ecosystems
- Learning Kubernetes
- MS Azure Fundamentals
- Cloud Storage Concepts
- Learning Cloud Computing
- Introduction to Web APIs
- Designing RESTful APIs
- JSON Essential Training
- Node.js Essential Training
- Flask Essential Training

Udemy
- SDLC - Software Development Life Cycle
- The Nuts and Bolts of OAuth 2.0
- Understanding APIs and RESTful APIs Crash Course
- Distributed Systems & Cloud Computing with Java
- Linear Programming Basics

- ASU Information Security Fundamentals Training

Awards

- Moeur Award (2024)
- Grace Hopper Scholarship (2023)
- 3rd Place in GM Intern Hackathon (2023)
- Best Presentation Award in GM Intern Hackathon (2023)
- NAMU President's Award (2022-2024)
- Sun Devil State Award (2022-2024)