

Heeyoon (Tim) Son

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Professional Summary

Experienced engineer with a robust understanding of software principles and a proven track record in web development backed by a year of hands-on experience in an agile environment. Passionate about maintaining a secure and organized software process for productivity.

Education

Bachelor of Science in Computer Science - Auburn University

May 2023

GPA: 4.00 / 4.00

Honors and Involvement: Dean's List, Summa Cum Laude, AI Club Officer, ACM, DoD SMART Scholarship finalist

Relevant Coursework: Data Structures and Algorithms, DevOps, Object Oriented Programming (OOP)

Skills

C++	Python	C
Java	Scrum	Windows, Linux Development
Git, GitLab	SQL	Microsoft Office

Experience

Software Developer Co-Op

May 2021 - September 2022

UDA Technologies

- Developed solutions for our public cloud-based (AWS) construction management platform Construction Online used by over 850,000 users in 75 countries utilizing the .NET framework.
- Promoted to lead the OnPoint proposal project, an intuitive customizable bid proposal widget featured at the International Builders Show 2023 with a dynamic preview option using Javascript, VB.NET, and TX Text Control server-side components.
- Revamped the client dashboard listing important project components of users such as to-do's, submittals, punch lists, and messages using Javascript, AJAX, and MSSQL server improving SQL execution times by 40% on average.
- Integrated new developers and streamlined our onboarding process reducing the integration period by 50%.

Projects

Rubik's Cube Web Service

Deployed: timsonau.github.io/RubikSolverPage

- Implemented a web service that lets users manipulate and solve any valid Rubik's cube configuration.
- Utilized Next.js for the front-end UI and Flask REST API with Python server to handle HTTP GET requests.
- Implemented software development practices such as Test-Driven Development with boundary value analysis unit testing, security analysis with Bandit (security tool), time logging, CRC card, acceptance testing, and project time estimation techniques.
- Containerized the server-side application with Docker to add portability and collaboration to the project.
- Deployed the client-side page through GitHub Pages and hosted the Python server on PythonAnywhere ensuring 24-hour availability.