Andrew Sunwoo

📞 703-647-0683
📍 Centreville, VA
✉ andrewjsunwoo@gmail.com

💼 andrewjsunwoo.github.io/Portfolio/
 github.com/AndrewJSunwoo
in linkedin.com/in/andrewjsw

EDUCATION

Bachelor of Science in Computer Science   **Aug 2019 - May 2023**
Virginia Polytechnic Institute and State University (Virginia Tech)   *Blacksburg, VA*

SKILLS

• AWS • ReactJS • JavaScript/TypeScript • Node.js • Express.js • Java • Spring • SQL • Docker • CI/CD • Git

CERTIFICATION

• AWS Certified Developer - Associate (2024)   • AWS Certified Cloud Practitioner (2022)

WORK EXPERIENCE

Founding Engineer / Full Stack Developer Intern   **Aug 2023 — Present**
HashedTokens   *Remote*

- Building and iteratively refining an OTP SaaS platform aimed at optimizing secure document and link sharing, with plans to gather and incorporate user feedback upon market launch.
- Spearheading the development of a responsive admin web application using **React**, **TypeScript**, and **Material UI**, enabling granular access control and real-time OTP usage data for informed stakeholder decisions.
- Delivering a robust and secure server for the admin web application with **Node.js**, **Express**, **TypeScript**, and **MongoDB**, ensuring secure data storage and enhanced authorization through **OAuth** authentication with Passport.js.
- Architecting a highly scalable **Go** server for the core OTP system with RESTful API endpoints, integrating **Redis** and **PostgreSQL** using **Docker** for efficient data management, and deploying it seamlessly on **AWS** using **Terraform**.

Software Developer Intern   **May 2022 — May 2023**
Systems Definition Inc.   *Alexandria, VA / Remote*

- Contributed to a cross-functional team developing a web application for U.S. Fire Departments, leveraging **React**, **TypeScript**, and **Material UI** to enhance data visualization and user experience.
- Utilized comprehensive **Java** skills to ensure accurate data transmission and effortlessly integrate library migrations within the **Spring** Framework, optimizing overall system performance.
- Increased system efficiency by optimizing **MongoDB** queries with queryBuilder, leading to significant performance improvements.
- Proficient in Agile, streamlining workflow through **Jira** for task management and **TortoiseSVN** for efficient version control.

Software Developer Intern   **Aug 2021 — Dec 2021**
Triangle Works Corporation   *Remote*

- Designed and developed RESTful APIs in **TypeScript** within a Scrum Team, utilizing **Winston logger** and **AWS CloudWatch** for robust error tracking.
- Improved application responsiveness by optimizing **AWS DynamoDB** queries and access patterns, resulting in a demonstrably smoother user experience.
- Led the design of the web application using **Figma**, creating an intuitive and user-friendly interface.
- Ensured Agile project progression and code consistency by leveraging **Jira** and **Bitbucket** for effective collaboration.

PROJECTS

Candidate Management Application | *React, Typescript, ASP.NET Core 7.0, and SQL*
- Developed a full-stack candidate management system in React and TypeScript, powered by ASP.NET Core 7.0 and SQL, enabling comprehensive candidate tracking with company, job, and resume management capabilities.

Movie Review Platform | *React, Spring Boot, and MongoDB*
- Built a dynamic movie review platform using React for the front end and Springboot with MongoDB for the back end, enabling users to share and discover insightful film critiques.

E-commerce Web App | *React, Redux, Node.js, Express, and MongoDB*
- Built a dynamic quote generator application using Next.js for an engaging user experience, backed by a serverless architecture on AWS Amplify with AppSync, Cognito, Lambda, and DynamoDB for efficient hosting, scalability, and continuous deployment.

Employee Directory App | *Angular, Spring, and MySQL*
- Built a comprehensive employee directory application using Angular, Spring, and MySQL to manage employee information efficiently.