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Andrew Sunwoo

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EDUCATION

Bachelor of Science in Computer Science
Virginia Polytechnic Institute and State University (Virginia Tech)

Aug 2019 - May 2023
Blacksburg, VA

SKILLS

• AWS • React • TypeScript • JavaScript • Material-UI • CI/CD • Kubernetes • Docker

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

Quote Generator Application | *Next.js, AWS Amplify, AppSync, Cognito, Lambda, and DynamoDB*

- 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.

Facial Recognition | *React, Rekognition, Lambda, DynamoDB, API Gateway, and S3*

- Developed a facial recognition system using **AWS Rekognition**, **Lambda**, and **DynamoDB** to securely authenticate users, featuring a user-friendly **React JS** frontend and seamless integration with backend services.

Jenkins Docker Pipeline for Kubernetes | *Jenkins, GitHub, Docker, and Kubernetes*

- Implemented a Jenkins pipeline with Docker integration to automate containerized application deployments to Kubernetes, ensuring portability and scalability.

End-to-End CI/CD Automation | *Jenkins, Ansible, Docker, GitHub Webhooks, and AWS EC2*

- Automated End-to-End CI/CD pipeline with Jenkins on **AWS EC2**, Docker containerization, and GitHub webhooks for continuous integration, seamless deployments, and consistent environments.