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Harry Liu

Software Developer | Full Stack | Devops | Typescript | Python

Over 5 years of software developer experience, working with enterprise level applications (banks and insurance companies). Excellent team player who encourages a collaborative knowledge-sharing environment to deliver quality results. Experienced with building end to end applications and software infrastructure (ie Fullstack, Devops, been there, done that.)

Work Experience

Tretton37 - Software Developer   *June 2024- present*
- Published reusable internal Typescript/Javascript libraries to enable developers working on internal projects to implement commonly used service interfaces, saving initial development of writing boilerplate code.
- Worked closely with company management (HR, people operations..) to build and automate the company's HR system infrastructure such as data flows saving hundreds of hours per week of manually updating data and reporting.

Capco - Fullstack Web Developer for Cross Mobile Banking Application   *January 2021 - July 2024*
- Provided **technical leadership** to team members through training and ongoing developer support.
- Modernized legacy browser and mobile applications using **Angular/Ionic** and **Express** frameworks.
- Collaborated with UI designers to establish a **reusable global component library** for client applications, enhancing consistency and efficiency in UI development. Components built in **Storybook** to meet design criteria.
- Engineered and implemented robust login-related infrastructure/features, including user challenge authentication, one time password login/authentication and **session management** to ensure a secure and enjoyable user experience.
- Rebuilding legacy **REST API** services with over 200 endpoints, improving overall system functionality and efficiency while implementing enhancements to meet evolving requirements.
- Implemented efficient **state management** patterns using **Redux patterns** to maintain consistency across the frontend application, ensuring optimal performance and user experience.
- Established application test environments and conducted thorough **unit testing** and **end-to-end testing** to achieve the customers requirements for **90% test coverage** of feature capabilities.
- Worked in an **Agile** team to define and implement defined user stories and tasks.

Capco - Frontend Developer for Real Estate Application   *September 2022 - December 2023*
- Developed and presented proof of concept **React** app code for real estate application that allows users to search for properties and view property details
- Designed architecture of UI application and take lead in implementing appropriate design patterns for the team to follow during the course of development.

Capco - Application Developer for Phone Interactive Voice Response Application   *September 2019 - December 2020*
- **Saved QA team over 50 hours per week** with automated **Python** scripts to reduce time spent manually searching through application logs. Script handled parsing and sorting of logs for QA analysis.
- Worked with product owners to enhance data flows of new requirements to the legacy application.

Personal Projects

Vigilant Broccoli - https://github.com/iamharryliu/vigilant-broccoli - *IaC, CICD, Package Management*
- Personal monorepo used to house personal software projects, developer notes, sandbox code, and more.

Toronto Alerts - https://torontoalerts.com/ - *Toronto based service for alerts and service announcements.*
- Toronto based service for alerts to City, Transit, Police, and Fire service announcements.

Technical Skills

Programming Languages: Typescript, Javascript, Python, Shell Scripting, SQL, Java
Backend: Express, FastAPI, NestJS, Redux patterns, Django, Flask
Frontend: Angular, React, Tailwind, Bootstrap, HTML, CSS
Testing: Cypress E2E Testing, Jest, Pytest, Unittest, JUnit
Devops: Git, Docker, Cloud Services(AWS, GCP, Azure), Automation Scripting, Github Actions, Iac (infrastructure as code)
Other Frameworks and Tools: SQL(Postgres, SQLite), NoSQL(MongoDB), Jira, Postman, Analytics, Storybook

Soft Skills

- Excellent communication and active listening skills, able to explain technical ideas in a clear and simple manner.
- Strong team player who is always open for discussions and collective collaboration.