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Harry Liu

Software Developer | Full Stack | Devops | Typescript | Python

Software developer with over 5 years of experience working with enterprise level applications (banks and insurance companies) and startup level applications. Excellent team player who encourages a collaborative knowledge-sharing environment to deliver quality results. Experienced with building full stack applications (frontend and backend), and devops practices including CICD deployment pipelines.

Work Experience

Capco - Fullstack Web Developer for Cross Mobile Banking Application   *January 2021 - present*
- 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.
- 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.
- Revitalized a legacy **REST API** by introducing additional endpoints and enhancements to meet evolving requirements, enhancing overall system functionality and efficiency.
- Implemented efficient **state management** patterns using **RXJS** and **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*
- **Increased QA team efficiency by 90%** 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/ - *Python, Flask, Github Actions, Postgres Database, Web Scraping*
- Toronto based service for alerts to City, Transit, Police, and Fire service announcements.

Vibecheck Lite - https://harryliu.design/projects/vibecheck-lite/app - *ChatGPT, Weather API Services, Angular, Express*
- Functional fashion-weather lifestyle tool to assist the user in deciding what to wear for the day based on the weather.
- Utilizes browser location services, weather API, and **AI responses** to generate appropriate outfits recommendations.

Technical Skills

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

Education

Ryerson Engineering - Bachelor of Civil Engineering