

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.

Work Experience

Tretton37 - Software Developer

June 2024- present

- Collaborated with company leadership to design and automate the company's HR system infrastructure, optimizing data flows and eliminating tens of hours of overhead reporting each week.
- Developed reusable **internal tools** and libraries, streamlining internal development by providing standardized service interfaces and reducing the need for boilerplate code.

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, Django, Flask

Frontend: Angular, React, Redux patterns, 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.