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# Harry Liu

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## Work Experience

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### Capco - Fullstack Web Developer for Cross Mobile Banking Application

January 2021 - present

- Provided **technical leadership** to team members through training and ongoing developer support, fostering a collaborative and knowledge-sharing environment.
- Modernized legacy mobile and browser banking applications by building a **cross mobile** (browser/mobile device) banking experience using **Angular** and **Express** frameworks.
- Collaborated with UI designers to establish a **reusable 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 NGRX/Redux and RXJS to maintain consistency across the frontend application, ensuring optimal performance and user experience.
- Established application test environments and conducted thorough **unit and end-to-end testing, achieving 90% test coverage** of feature capabilities.
- Worked in **Agile** teams with product owners, designers, and other developer teams to break down requirements into defined user stories and tasks to implement. Technical issues were handled through **Jira**.

### 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

- Modernized legacy banking phone application by developing a **Java Spring Boot** application to handle incoming calls.
- **Increased QA team efficiency by 90%** with automated **Python** scripts to reduce manual time spent searching for logs by handling parsing and sorting of logs for QA analysis.
- Worked with product owners to implement and enhance data flows to handle new requirements to the legacy application.

## Projects

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### 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 **ChatGPT** to generate appropriate outfits recommendations.

## Technical Skills

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**Languages:** Typescript, Javascript, Python, Java, SQL, Shell Scripting, HTML/CSS

**Web Development:** Angular, React, Express, RXJS/NGRX libraries, Django, Flask, Jest, Pytest, Cypress, Tailwind, Bootstrap

**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