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# Harry Liu

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## Work Experience

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### Capco

September 2019 - present

#### Fullstack Web Developer at Top 5 Canadian Bank

- Modernized legacy mobile and browser banking applications using modern Javascript frameworks such as Angular and Express to build cross mobile banking application experience.
- Designed and implemented login related infrastructure/features such as user challenge authentication, one time password login/authentication and session management.
- Created application test environments for dev and QA use to thoroughly cover application requirements.
- Wrote comprehensive unit testing suites to cover feature capabilities using Jest test framework.
- Trained junior/intermediate developers through onboardings, knowledge transfers, and providing learning support.
- Developed effective reusable global UI components that are to be consumed by other organization applications.
- Implemented efficient state management patterns with NGRX, Redux, RXJS patterns to improve quality of work for fellow developers and state consistency.
- Demonstrated strong proficiency with Node module package management.

#### Frontend Web Developer at Top 5 Canadian Bank

- Developed React POC code for real estate application that allows users to view property details and street views.
- Assisted in design architecture of application and deciding appropriate development patterns and solutions for the team to follow during the course of development.

#### IVR Phone Application developer at Top 5 Canadian Bank

- Modernized banking phone application by developing a Java Spring Boot application to replace the legacy application to handle incoming bank calls and implementing new call flows.
- Supported QA teams with automated Python scraping scripts to cut down on time spent searching for logs by. Scripts handled parsing and sorting of logs for QA analysis

## Projects

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### Personal Website - <https://harryliu.design/>

- Personal website for portfolio, development testing purposes, and hobby purposes.
- **Technology stack:** Angular (frontend app, SPA), Express (backend app, REST API), Tailwind (UI styling), NoSQL MongoDB (database), Node (scripting), deployed using Cloudflare and FlyIO, NPM (package handling),

### Vibecheck Lite - <https://harryliu.design/projects/vibecheck-lite/app>

- Vibecheck Lite is a functional fashion-weather lifestyle tool to assist the user in deciding what to wear for the day based on the weather.
- **Application stack:** Browser location services, weather API, OpenAI Chat API

## Technical Skills

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

**Frameworks and Technologies:** Angular, React, Express, RXJS and NGRX libraries, Django, Flask

**Tools:** Git, Docker, , NoSQL(MongoDB), SQL(PostgreSQL), Jira

## Education

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Bachelor of Engineering (Civil Engineering) - Ryerson University, Toronto, Ontario (September 2013- August 2017)