MICHAEL CAI

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SKILLS

- **Languages**: JavaScript/TypeScript, HTML/CSS, Java, SQL, Python, Golang, Familiar With: C/C++/C#
- **Tools & Frameworks**: Vue/Vuex, React/Redux/React-Native, Ember, Node/Express, CD/CI, GCP

EXPERIENCE

SOFTWARE ENGINEER INTERN | FRESHII
Sept - Dec 2018 | Toronto, ON

- Implemented complete overhaul of Freshii's website with best practices of UI/UX, generating **90%** increase in online sales
- Developed core online ordering features with **Vue** following the standardized **Twelve-Factor App** methodology to enhance code quality and maintainability, speed up CD/CI pipelines, and increase dev/prod parity
- Optimized rendering speeds using **Webpack** and lazy loading via async imports that reduced app bundle size by **80%**
- Integrated i18n with **VueI18n** and **Prismic** (a headless CMS) which enabled content support for **17+ languages**
- Expanded e-commerce service to **Google Home/Amazon Alexa** to introduce hands-free ordering

SOFTWARE CONSULTANT INTERN | IBM CANADA LTD
Jan - Dec 2017 | Toronto, ON

- Led end-to-end full-stack development project, applying **React/Node/Express** and **Bluemix Cloud Services**
- Reduced mobile application development time by **60%** without losing native feel with **React-Native** and material design
- Provisioned **Hyperledger Composer** blockchain instances using **Docker** and managed with **Kubernetes** clusters
- Increased productivity by configuring **Jenkins CI** to run integration builds on feature changes and updates to the application as well as **Bluemix CD** for production and client demonstration builds
- Created **RESTful APIs** for simple and efficient integration with the application and blockchain frameworks
- Hosted technical presentations to inform clients and senior executives in the conversational business space

AGILE SOFTWARE ENGINEER INTERN | PIVOTAL LABS
Sept 2015 - Aug 2016 | Toronto, ON

- Developed the **Lincoln/Ford** Android app, boosting downloads by **30%** and earning a **4-star** rating in the Play Store
- Improved application performance by implementing reactive programming with **RxJava/RxAndroid**
- Applied **Model-View-Presenter** architecture to increase code readability and modularity
- Created automation tests for various **Android** applications using **Espresso**
- Planned sprints, prioritized key features, and reported defects with **PivotalTracker/Jira**
- Performed exploratory testing on mobile devices in an **Agile/XP** environment

PROJECTS

TESTIFY - INTERVIEWING DONE RIGHT!
May 2018 - Present | Web Platform

- Architectured all-in-one service for take-home coding tests, eliminating scattered applicant data across multiple services
- Clean logic separation and fast rendering speed on the frontend using **EmberJS** with persistent data management
- Built backend using **Flask** and integrated a **Git** server for hosting repositories
- Deployed on **AWS** with a **Nginx** web server

RIDEBUDDY
Jan 2018 - Present | Hybrid Application

- Created a sleek **Hybrid** mobile application for university ride-sharing and carpools using **React-Native/Redux**

EDUCATION

SEPT 2014 - APRIL 2019 | UNIVERSITY OF WATERLOO

- Bachelor of Applied Science in Electrical Engineering (GPA: 3.7/4.0)
- **Relevant Courses:** Data Structures & Algorithms, Computer & Communication Networks, Cooperative & Adaptive Algorithms, Operating Systems, Cryptography & System Security, Programming for Performance