

Jason Wang

SOFTWARE ENGINEER · COMPUTER ENGINEERING MAJOR

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Technical Skills

Languages Python · Java · C# · HTML/CSS · JavaScript · TypeScript

Technologies Spring Boot · Django · Node · React · Express · MySQL · MongoDB · AWS · Jenkins · Linux · Git

Education

University of Waterloo

HONOURS B.A.SC. IN COMPUTER ENGINEERING (3.9 GPA)

Waterloo, ON

Expected Graduation: Apr. 2024

Work Experience

Interaptix Augmented Reality

Remote

SOFTWARE ENGINEERING INTERN - WEB

Jan. 2020 - Apr. 2020

- Optimized **Django REST Framework APIs** by redesigning endpoints, filtering, and caching, improving loading speeds by up to **40%**
- Architected modular front end, building key **React** components and custom hooks with **TypeScript** for the assembly inspection platform
- Scoped, designed and built a robust and extensible peer to peer chat feature via **Azure SignalR** with a dynamic, multi-browser compatible UI
- Owned development process through product demos, feature specs, and task breakdowns with engineers and managers

Veeva Systems

Toronto, ON

SOFTWARE ENGINEERING INTERN - VAULT SAFETY AI

Jan. 2020 - Apr. 2020

- Built an app feature using Veeva's Vault **Java** SDK, allowing for customer queries against a **MySQL** database in order to easily synchronize WHODrug dictionary tables with **10 million+** entries, presented in an elegant UI built with **React**
- Developed a **Spring Boot** microservice with **AWS** Key Management Service and **Amazon S3** buckets along with cryptographic obfuscation logic for dual-layer encryption of sensitive patient data
- Applied data cleansing and wrangling to pre-process structured and unstructured intake JSON data for NLP extraction
- Employed **JUnit** tests with **Apache Maven** on all modules of the AI web service achieving 90% code coverage

CIBC

Toronto, ON

APPLICATION DEVELOPMENT INTERN - CAPITAL MARKETS

May. 2019 - Aug. 2019

- Owned development of an EOD (End of Day) bonds pricing application using **Apache Phoenix** database, reducing indexing times by **50%**
- Delivered a **C# .NET** application to filter and automate **5000** daily file transfers, saving each trading desk **3 hrs/week**
- Initiated and worked on first phase of an **MVC** to **AngularJS** migration of the Fixed Income Analytics web app

Projects

FeelCraft Research Project (University of Waterloo)

- Researched at The Games Institute on vibro-tactile chairs and bringing sense of touch into traditional entertainment
- Automated client-side startup with **Docker** for FeelCraft, a **Python app** for customizable haptic feedback in Minecraft

Music Maker Sound Board

- Built a music production app with **JavaScript** to allow anyone to easily create and produce their own tracks
- Added recording and sharing functionality with **DynamoDB** by triggering **AWS Lambda** functions through **API Gateway**

NBA Finals 2019 Simulation

- Developed a 7-game series simulation with **Python** based on aggregated season data to generate statistical distributions
- Rendered the results in **Chart.js** and **React** and analyzed discrepancies caused by skewed data from player injuries

Activities

The Knowledge Society - Accelerator Program

Feb. 2017 - Sep. 2017

- Designed an app for Airbnb to facilitate resource distribution for refugees; invited to Airbnb HQ to present solution
- Tackled food waste in local grocery stores with Nestle by designing an augmented reality app

Auris - Startup

Mar. 2017 - Oct. 2017

- Led a team of 8 to design and prototype rechargeable hearing aids with Peltier modules and voltage boosters
- Collaborated with audiologists and researchers across North America and won 2 pitch competitions with \$5000 in funding