

JASON WANG

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Technical Skills

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

Technologies Spring Boot · Node.js · React · Express · MySQL · MongoDB · AWS · Jenkins · Linux · Git · Bash

Work Experience

Veeva Systems

Jan – Apr 2020

SOFTWARE ENGINEERING INTERN - VAULT SAFETY.AI TEAM

- 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
- Developed a **Spring Boot** microservice with **AWS** Key Management Service and **Amazon S3** buckets along with AES and cipher block chaining 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
- Owned development process through product demos, feature specs, and task breakdowns with designers and PMs
- Employed **JUnit** tests with **Maven** on all modules of the AI web service achieving **90%** code coverage

CIBC

May – Aug 2019

APPLICATION DEVELOPER INTERN - CAPITAL MARKETS TEAM

- Owned development of an EOD (End of Day) bonds pricing application using **Apache Phoenix** relational database, effectively 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)

Sep – Dec 2019

- 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

Apr 2020

- 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

Jun 2019

- 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 – 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 – 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

Education

University of Waterloo

Sep 2018 – Apr 2023

Mechanical Engineering, Computing (Computer Science) Option – 3.7 GPA