

JASON WANG

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Technical Skills

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

Technologies Node.js · React · Express · MySQL · MongoDB · Docker · AWS · Jenkins · Elasticsearch · Git

Work Experience

Veeva Systems

Jan – Apr 2020

SOFTWARE ENGINEERING INTERN - VAULT SAFETY.AI TEAM

- Built an app feature using Veeva's Vault Java SDK to allow fast queries against a MySQL database for easily synchronizing WHODrug dictionary tables with 10 million+ entries
- Developed a Spring Boot microservice with AWS KMS and Amazon S3 buckets along with custom obfuscation logic for dual-layer encryption of sensitive patient data for storage in the AI data lake
- Implemented validation and pre-processing of structured and unstructured intake JSON data for NLP extraction
- Employed JUnit tests with Maven on all modules of the AI web service achieving 90% branch 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 under Prof. Oliver Schneider on vibro-tactile chairs for gaming immersion
- Automated client-side startup with Docker for FeelCraft, a Python app for customizable haptic feedback in Minecraft

NBA Finals 2019 Simulation

Jun 2019

- Developed a 7-game series simulation with Python based on season data, displayed with Chart.js and React

Work Sessions

Sep 2019

- Built a React web application with Express and GraphQL for teams to create and manage work sessions
- Created a complete user authentication system with hashed data stored in a MongoDB database

Activities

The Knowledge Society – Accelerator Program

Feb – Sep 2017

- Worked with Airbnb to design an app to distribute resources for refugees; invited to Airbnb HQ to present solution
- Designed a VR/AR app with Nestle as a solution to tackle food waste in local grocery stores

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 (South Carolina, Michigan, San Francisco)
- Won 2 pitch competitions and received \$5000 funding from Ryerson University

Education

University of Waterloo

2018 - 2023

Mechanical Engineering, Computing (Computer Science) Option

- 3.7 GPA, President's Scholarship, WatPD Engineering Scholarship