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 · 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 to allow 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 KMS and Amazon S3 buckets along with cryptographic obfuscation logic for dual-layer encryption of sensitive patient data, stored in the AI data lake
- Applied data cleansing and wrangling to pre-process structured and unstructured JSON data, owning the development process including product demos, task breakdowns and collaborating with designers, product managers and developers
- 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 Charts.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 foot 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