

HOSSEIN MOHEBBI

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EXPERIENCE

ApplyBoard | Software Engineer

Sep 2020 – Apr 2021 (8 months)

- Developed cross-functional microservices in Ruby on Rails for the content pod of the main product, where over 100k students can engage with and apply to 1,200+ colleges/universities
- Implemented a complex Eligibility API that queries the MySQL database for user eligible programs based off 20+ factors; later integrated it into the search engine for filters and app payments for authentication
- Automated the rendering of custom certificates for Recruitment Partners as PDFs in React
- Wrote and tested several REST API endpoints using Ruby on Rails Rspec to check CRUD operations

IBM | Software Engineer

Jan 2020 – Apr 2020 (4 months)

- Created full-stack software packages for IBM's Security Analytics web app (QRadar)
- Localized multiple extensions to support over 9 locales in over 170 countries using react-intl
- Used Watson Speech Synthesis API to announce worldwide threats for a 3D Globe extension rendered through a Python/Flask system
- Migrated 30+ React Components to the new Carbon Design System and debugged broken styles

High Q Technologies | Software Engineer

May 2019 – Aug 2019 (4 months)

- Designed software to control and monitor quantum computing experimental hardware
- Implemented a low latency multi-threaded backend to pipeline serial messages and compute metrics to and from research devices using PySerial, PyVisa and PyUSB
- Solely developed a quantum mechanics simulator to parse inputted pulse readings and display computed analytics using NumPy, SciPy and Matplotlib; open sourced on [github](#)
- Created intuitive GUI models in PyQt to configure experiment parameters and plot device readings

PROJECTS

SoulDog | University Project (hosted on [heroku](#))

Aug 2021

- Built a fully functioning dog marketplace web app in Node.js, Express.js, ReactJS and a SQLite database
- Several CRUD operation queries were made for profiles, likes, comments, posts, and login authentication
- App also intelligently recommends dogs to adopters based off common profile traits for a good match, but also allows for custom filtering and searching

trEcho | UOttHacks³ (Winner)

Feb 2020

- Developed a skills app in AWS Lambda to track parcels using Amazon Alexa's voice service
- Utilized Google Maps API as well as physical calculations in latitude, longitude and bearing to design an algorithm that makes a 94% accurate estimation for location and ETA of parcel from last known location
- The flask-based app yields a solution to Innovapost's delivery system stress of 30 million+ requests/day

SKILLS

Python · C++/C · Ruby on Rails · JavaScript · Node.js · ReactJS · SQL · HTML/CSS · Kotlin · Flask · Docker · Git

EDUCATION

Bachelor of Computer Science | University of Waterloo (3.8 GPA)

2018 – Present

- President's Scholarship of Distinction / President's Research Award / Dean's Honours List