JIMMY QI

Computer Science Pure Mathematics

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SKILLS

Languages: C++, C, JavaScript, Python, Scheme, SQL, R, CSS

Others: NodeJS, ReactJS, PostgreSQL, Backbone, Handlebar, Mocha, Chai, NightmareJS, Scikit-Learn, Tensorflow, Git

WORK EXPERIENCE

Software Developer | Hubdoc – A Xero Partner *May 2019 – Aug 2019*

- Built and maintained 50+ JavaScript web-scrappers that download bills from various billers (eg. Banks) to expedite my client's accounting workflow by consolidating documents and help them scale their practice
- Implemented a search for users feature using Node and SQL that saved the Customer Support team tons of time
- Investigated a more reliable metric of success which was useful for prioritization and recruitment as part of work report

PROJECTS

Mappify | A Maps Chrome Extension *Jul 2019*

- Scraped MLH.io to retrieve Hackathon information and adapted the UI to integrate a map marked with hackathon locations using JavaScript
- Accelerated the hackathon finding process for students by eliminating the need to toggle between MLH and google maps

EtherRide | Best Use of Blockchain Award @ UofTHacks *Jan 2019*

- Constructed an autonomous "Uber" using blockchain to provide legal reliability between human-computer interactions
- Adopted Node to link frontend React to sponsor's SmartCar API to securely control vehicles once smart contract executes

Vim | Text Editor *Dec 2018*

- Implemented a C++ clone of Vim with over 50 commands following OO principles and utilizing various design patterns
- Formulated methods for undoing commands and kept history in a stack which can be popped for unlimited undos

Avacancy | HackPrinceton *Nov 2018*

- Employed Python's Computer Vision to identify vacant parking spots using object recognition on security camera footage and directed drivers to appropriate vacancies.
- Incorporated image transformations from camera POV to an aerial perspective for extra readability

Journal of Wine | Regression and Classification of Wine *Jun 2018*

- Used Python to perform feature selection and constructed regression and classification models on ratings of red and white wine with 93% accuracy
- Visualized data using Seaborn plots and documented a Jupyter journal for educational purposes

ACTIVITIES

Actuarial Science Club | Event Coordinator *Jan 2018 – Apr 2018*

- Organized and directed weekly events with tasks including meeting up with a representative from the largest actuarial association in North America, SOA, to collaboratively formalize the details of SOA Outreach Day
- Actualized connections formed in London Life during internship to arrange a collaborative Trivia Day event

Math Club | Co-President *Sep 2016 – Jun 2017*

- Created weekly problem sets targeting advanced concepts and led discussions to promote critical thinking
- Presented key mathematical ideas to juniors which accelerated their learning experience and improved the school's national ranking to number one in Canada on Fermat 2016

EDUCATION

University of Waterloo | Candidate for Double Degree in Computer Science, Pure Math, 2022

- **Achievements**: Dean's Honours List, Mathematics Scholarship, President's Scholarship
- **Related Courses**: OOP, Data Structures, Functional Programs, Optimization, Statistics, Linear Algebra, Public Speaking

INTERESTS

- I enjoy working out, playing ball, swimming, bouldering and snowboarding
- I am religious when it comes to food and cooking, my childhood dream was to become a food connoisseur