US Citizen

patrick.wong@uwaterloo.ca https://patwong.github.io/ Cell: (226) 868-1798 US: (408) 800-5762

Home: (905) 812-2880

EDUCATION

Bachelors of Mathematics, University of Waterloo

October 2016

Majors: Computer Science and Computational Math, Minor: Combinatorics and Optimization

SUMMARY OF QUALIFICATIONS

Technical Skills

Languages (Proficient) MATLAB, Python, C#, SQL, (Experienced) C++/C, Java, Ruby

Frameworks/Tools Rails, Git, Linux, PostgreSQL

Relevant Personal Projects

Rails Tutorial App February 2017 – April 2017

- Utilized Ruby on Rails framework to create dynamic webpages in HTML/Bootstrap with PostgreSQL database
- Applied test-driven development methodology by implementing functionality around rigorous tests
- Deployed web application onto Heroku's cloud service

MLB Batted Ball Stat Visualizations

December 2016 - April 2017

- Engineered Python module to produce interactive histograms and scatterplots in HTML
- Organized parsing, analysis, and plotting functionality into a single module
- Performed statistical analysis with the numpy, scipy, and pandas libraries

notedump November 2016 – December 2016

- Protoyped several UI designs through application of Model-View-Controller design pattern
- Developed a Windows application from scratch using Visual Studio C#

Relevant Coursework

Numeric Computation for Financial Modeling

 Implemented binomial lattice, Monte Carlo, and finite difference methods to price European and American Options

Operating Systems

Implemented synchronization primitives, system calls, and a virtual memory system for the OS/161 kernel

WORK EXPERIENCE

Technology Intern, Loring Ward, San Jose, California

May 2013 - August 2013

- Fixed and maintained computer hardware, communicating with vendors to resolve complex problems
- Solved user issues with Windows 7, Outlook, and internet browsers

Assistant, Gold Gold Travel, Mississauga, Ontario

May 2012 - August 2012

- Planned vacation details and swiftly completed flight bookings for clients
- Communicated with tour agencies to send client travel information and confirm bookings