PATRICK WONG

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US Citizen

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EDUCATION

Bachelors of Mathematics, University of Waterloo   October 2016
    Computer Science and Computational Mathematics Major, Combinatorics and Optimization Minor

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