Jerry Xu

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PROFESSIONAL

Pivotal Labs
Software Developer
Jan - Apr 2017

Developed 3 iOS apps for a Fortune 10 client with Swift, Objective-C++, and Cocoa
- Completely redesigned a navigation applet and eliminated >80% of navigation bugs
- Optimized Concourse CI/CD pipelines to decrease testing times by 30%
- Used Agile and version control tools such as PivotalTracker, Git, and SourceTree
- Faithfully used test-driven development while pair-programming with full-times

Tests Developer
May - Aug 2016

Wrote 20 Espresso, Earl Grey, Cedar test suites for 3 mobile applications
- Verified daily stories on 2 Android/iOS projects in an agile environment
- Setup automated Android Espresso tests for Concourse CI pipelines
- Handled multiple projects simultaneously to deliver high quality apps to clients

Institute for Quantum Computing
Research Assistant
Jan - Apr 2016

Assembled Czerny-Turner monochromator with Waterloo professor supervision
- Learned 3D CAD with Autodesk Inventor; data visualization with MATLAB
- Designed and 3D-printed >15 plastic components and assemblies with Inventor
- Led the initial design of MATLAB application used to present spectrometer data
- Soldered and programmed Arduino and Motor Shield to control multiple motors

City of Toronto
Applications Developer
Jan - Dec 2015

Created 3 server-based applications using Oracle APEX, JavaScript, and PL/SQL
- Developed SQL queries and workflows used by >500 Toronto Water employees
- Helped debug numerous applications and updated application documentations
- Provided technical services to City of Toronto facilities

TECHNICAL

- Collaboratively developing UNIX shell emulator using pure JavaScript, HTML, and CSS: jerrxu.github.io
- Web/server development experience with PHP, Bootstrap, jQuery, and SQL
- Skillful in iOS and Android development, built numerous apps for school and work
- Fluent in Agile methodologies like TDD, CI, pair programming; solid knowledge of version control with Git, SVN
- Hardware experience: programmed microcontrollers and FPGA boards with Assembly ARM, VHDL, and C/C++
- Circuits experience: used oscilloscope, function generator, and SPICE software to analyze non-linear circuits

PROJECTS

Java and Android Programming Sept 2012 – Present
- Created numerous Android Applications with Java in Eclipse and Android Studio
- Collaboratively developed Java programs, simulations, and 2D games with Greenfoot and Visual Studio
- Familiarized with various Android systems and APIs e.g. activity life cycles, sensor data processing

Waterloo Nano-Satellite Team Sept 2014 – Present
- Developing power management system for the Canadian Satellite Design Challenge nanosatellite
- Working alongside power systems team to design and fabricate printed circuit boards using Eagle
- Cooperating with members of payload, ion thruster, and propulsion teams to optimize board layouts

EDUCATION

B.A.Sc. in **Computer Engineering** - University of Waterloo, Class of 2019
Courses: Operating Systems | Compilers | Embedded Microprocessors | Digital Hardware Systems
Programming Mentor of Computer Science and Robotics Club | **Violin Section Lead** of UWSO
Participant of: HackWestern | NASASpaceApps | TerribleHacks