Byron Roosa

Software Developer

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About Me

I'm a versatile full stack developer with an uncanny knack for quickly mastering new programming languages and technologies. I thoroughly enjoy creating high-quality software that works well for developers and users alike.

Technical Skills

Languages - Proficient in Python, C/C++, Java, PHP, HTML/CSS, Javascript, Bash. Working knowledge of C#, .NET, SQL, ARM Assembly, as well as others.

Frameworks - Flask, Django, bootstrap, jQuery, wxPython, Swing

Software - Apache, MySQL, Postgres, MongoDB, Experience administering BIND, DHCP, NFS, Postfix. Proficient with Eclipse, IntelliJ, other IDE's, significant experience with Linux tools

Concepts - Object-Oriented Programing, UI/UX Design, MVC, Software Design, Web Development, Databases, REST, Systems Administration, Virtualization, TCP/IP networking, VCS (SVN, Git),

Operating Systems - Linux (server and client), Windows, Mac OS X, Android

Experience

Earlham College / Student IT Infrastructure Developer
SEPTEMBER 2016- PRESENT, RICHMOND, IN

- Researched and tested implementation OSSEC log analysis system for use in IT server cluster
- Designed internal tools to replace legacy user-management systems

Earlham College / Systems Administrator, Computer Science Department
SEPTEMBER 2014 - SEPTEMBER 2016, RICHMOND, IN

- Designed and implemented virtualized (Xen-based) server infrastructure in current use by around 70 Computer Science students and faculty.
- Provided end-user support on technical issues involving departement servers and software
- Maintained publicly-facing services used on a regular basis by department faculty and students
- Coordinated the specification and acquisition of an 8-node Beowulf cluster for future use by the Computer Science department

Sugarbush Electronics / Contract Software Developer

JUNE 2013 - APRIL 2015, BARNET, VT

- Designed and implemented wxPython-based desktop application for real-time geo-centric monitoring of field-installed sensors
- Developed mapping software for combining USGS aerial imagery with data from the field
- Currently in use by maple syrup producers in Vermont and New Hampshire

Education

Earlham College / B.A., Computer Science (Expected 2018)

AUGUST 2014 - PRESENT, RICHMOND, IN

Other Interests

Information Security/Computer Forensics
Data Science
Computer Science Education
Computer Engineering
Electronics Design
Distributed Computing

Awards

Earlham College Presidential Scholarship

AUGUST 2014 - PRESENT, RICHMOND, IN