James K. Kurtz

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School

Drexel University — Philadelphia, PA
Bachelor of Science, Computer Engineering — Anticipated Graduation - June 2016
Minor, Entertainment Engineering
Minor, Business Administration

Skills

Software: Amazon Web Services (EC2, S3, RDS, EB, Route 53, SES, SNS), Apache, Git, Hg, IIS, Illustrator, IntelliJ IDEA, InDesign, MATLAB, Microsoft Office (Access, Excel, PowerPoint, Publisher, Visio, Word), Photoshop, Reaper, Visual Studio, WebMatrix, and Dev Tools of Chrome, Firefox & IE

Languages: Bash, C, C++, C#, CSS3, HTML5, Java, JavaScript, LOLCODE, MATLAB, PHP, Python, SQL, Visual Basic

Operating Systems: Windows, Windows Server, Ubuntu, Raspbian, iOS, Android, Windows IOT

Equipment: Arduinos, FPGAs, Oscilloscopes and DMMs, Spectrum Analyzers, Function Generators, Soldering & Prototyping Equipment, Machining Tools

Experience

Analytics Graphics, Inc. (AGI) — Exton, PA
Development Co-op — April 2015 to September 2015
- Contributed to Cesium, a JavaScript library for creating 3D globes in a web browser
- Improved threading for processing large data sets of terrain
- Created several demos for trade shows and the web
- Worked with FAA ASDI data for analysis of commercial flight patterns and performance

Oracle Corporation — Bala Cynwyd, PA
Front-End Developer Co-op — March 2014 to September 2014
- Used common JavaScript libraries such as jQuery, Underscore and jQuery UI.
- Contributed to a charting library (line charts, pie charts, etc.) based on D3.js
- Extended internal libraries to add new functionality
- Exposed to a full release cycle and large-scale development methodologies

Comcast Corporation — Philadelphia, PA
Technology & Product Co-Op Engineer — April 2013 to September 2013
- Supported development of the new voice control remote
- Developed a redundant prototype cloud-based user authentication backend
- Developed Android apps to support bleeding-edge demos of emerging technologies
- Contributed to a DLNA client software stack
- Tested and optimized WiFi configurations for noisy and variable environments
- Assembled a Kerrighed cluster running Ubuntu

Freelance Web Development — Philadelphia, PA
CMS, CRM & Webapp Developer — June 2010 to Present
- Conceptualized and developed a PHP-based content management system (CMS), which includes customer relationship management (CRM) functionality
- Developed extensive analytics and reporting tools
- Enabled e-commerce and web payments through several payment processors
- Automated administrative paperwork, reducing overhead
- Currently handle about 400k page views per month

Other Stuff

Team Leader, Senior Design (Capstone) Project, "The Drone that Brings You Things," 2015 – Present
Treasurer & Director of Media, Drexel Students for Christ, 2012 - Present
Media Ninja & Member, Drexel Students for Christ, 2011 - Present
Sound Engineer, Tenth Presbyterian Church, 2011 - Present
Member, Drexel IEEE, 2011-Present

Dec-15