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CURRENT RESEARCH

- Energy efficiency, automation, and validation of renewable-energy systems and smart grids
- Context management and learning in Internet of Things (IoT) systems
- Power- and context-aware computing in embedded and mobile systems

SKILLS

Languages
- Proficient: C++, Java
- Familiar: C, Perl, Python, C# with .NET, JavaScript, JSP, Ruby On Rails

Software
- MATLAB, LabVIEW, FPGA Advantage, Quartus II, PSPICE, AutoCAD

EXPERIENCE

PhD Engineering Intern   Summer 2011, 2012, 2013, 2014
Google London
- [Confidential]

Google – Video Ads
- Developed a testing framework for video ads, decoupling testing between dependent teams

Google – Focus backend
- Developed a tool to search, analyze and debug Google's social backend data
- Provided granular data access, extensible to common debugging scenarios, while preserving data access permissions

Google – Xbid
- Web frontend development on Java and Google Web Toolkit codebases, including new extensions to GWT
- Emphasis on designing UIs that are intuitive to users and reusable by developers.

Programming Teacher, Pacific Ridge School   2013-present
- Introduction to Computer Science – C++ and Python.

Software Development Engineer   2008-2010
Microsoft – Core Operating Systems Division (Windows)
- Maintain the multi-language toolset that builds and packages past, present, and future OS versions.
- Development, testing, release of high-quality updates and features with fast turnaround time.
- Deliverables:
    - Windows 7 servicing updates
    - Vista SP2 – Windows 7 Operating System and Feature releases

Undergraduate Researcher   2007-2008
University of Virginia
- Performed initial research to identify the benefits and problems of an N-Variant System
- Rewrote Linux kernel to address non-determinism caused by threading and signals
- Overarching goal was to create a graceful-recovery application framework that is invulnerable to attacks

EDUCATION

University of California, San Diego – *Department of Computer Science and Engineering*   2010 – present
- Ph.D. Candidate, System Energy Efficiency Lab (SEELab)
- M.S. Computer Science (2012)
- Advisor: Tajana Simunic Rosing

University of Virginia – *School of Engineering and Applied Science*   2004 – 2008
- B.S., Electrical Engineering, Computer Science

Note: For an Academic Resume, see Curriculum Vitae.