Sina Hassani

Resumé

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Education

2013 - 2015 (expected) — **M.Sc. of Computer Engineering**, *University of California*, *Santa Cruz*.
Regents Fellowship for 2013-2014 academic year

2009–2013 — **B.Sc. of Computer Engineering**, *University of Kerman*.
1st **Rank** in class
2 scholarships from local industry

Experience

2015 — **Summer Intern**, *Memory Systems Lab, Samsung Semiconductor Inc*.
- Created an optimization model for SSD and NVMe drives that doubles write throughput for some workloads. A patent for this work is under review.
- Developed a data visualization framework for performance analysis of data centers that is used at the memory systems lab and Samsung headquarters.
- Developed an I/O characterization tool-chain for analyzing and visualizing application I/O patterns at filesystem and block layers.

2013 - current — **Graduate Student Researcher**, *MASC Group, University of California Santa Cruz*.
- Developed a novel architecture simulation framework that reduces simulation time by 4 orders of magnitude and submitted a conference paper based on proposed idea.
- Developed a web-based live and collaborative environment for research and development. This environment is used for research in MASC group and will be published as open source.
- Developed a web-based framework to evaluate and compare emerging hardware description languages.

2015 — **Teaching Assistant**, *University of California Santa Cruz*.
Computer Architecture (graduate course), Computer Systems and Assembly Language

2012–2013 — **Project Manager**, *Realtyna LLC*.
Technical evaluation, negotiation, definition, wire-framing, coordination and management of web-based software development projects.

2010–2012 — **Software Developer**, *Realtyna LLC*.
PHP, MySQL, JavaScript and HTML/CSS development for developing web applications and content management systems.

2008 — **Network Administration Intern**, *Rahe Ayandeh Payam*.
Administration and configuration of Windows and Linux servers

Skills

Programming	C/C++, C#, Python, IPython, Fortran, MPI, Bash, Assembly
Web	NodeJS, PHP, ASP.Net, JavaScript, HTML, CSS, Joomla
Database	MySQL, MongoDB, SQL Server, MS Access
Hardware	Micro-Controllers, VHDL, Cadence, Calibre, HSpice, ISIS Proteus
Other	Data Visualization, Performance Analysis, Linux, Kernel, Git, SVN, LaTeX