

Sagar Pandya

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EDUCATION

MS in Computer Science

University of Southern California

Expected May 2012

GPA: 3.71

BS in Computer Engineering

University of California, Santa Barbara

Conferred June 2009

Major GPA: 3.52

QUALIFICATIONS

Programming: BASH, C/C++, HTML & CSS, Java, JavaScript, Matlab, PHP, Python, SQL.

Tools: *nix Administration, Adobe Photoshop, Git, Matlab, Subversion, Vim.

WORK EXPERIENCE

Graduate Technical Intern, Intel Corporation, Hillsboro, Oregon (May 2011-August 2011).

Researched methods for implementation of a tool that would aid in the rapid development of device firmware.

Developed a prototype of the tool using Python and the wxWidgets graphical toolkit.

Developer Intern, Novacoast, Inc., Santa Barbara, California (June 2008-July 2010).

Led an intern in the design and implementation of a website that used PHP, JavaScript, Adobe Flex, and MySQL to collect project information into an easy to access interface for customer access. Collaborated to produce a two-way, many-to-many data synchronization engine implemented using Python, XML, and XSLT. Worked on feature and stability enhancements of a Linux-based business server suite implemented in Python.

Resource Assistant, Gevritz Graduate School of Education, UC Santa Barbara (June 2007-June 2008).

Researched and managed a department-wide electronic door lock system. Maintained three computer labs using Windows Active Directory and Apple Remote Desktop. Deployed a virtualized server using VMWare Workstation to ease maintenance.

ACADEMIC EXPERIENCE

Graduate Research, iLab, University of Southern California (Fall 2011-Spring 2012).

Developed robotics control software for an in-house modular robotics toolkit at the iLab at USC under Professor Laurent Itti. Implemented a fast computer vision algorithm for the lab. Optimized the run-time of the algorithm using SSE2 and SSE3 compiler intrinsics. Development primarily in C++, Objective-C, and Python.

Private Tutor, UC Santa Barbara Student, UC Santa Barbara (Spring 2009).

Aided an electrical engineering student achieve the highest grade in a senior network-programming course that required knowledge of socket programming, Java RPCs, and GUI programming using the Java NetBeans IDE.

Senior Capstone Project, UC Santa Barbara (Fall 2008-Spring 2009).

Led a team project that developed an electronic door lock that sensed a user's presence via their Bluetooth cell phone. Designed custom electronic parts, schematics, and circuit boards using Mentor Graphics tools; developed embedded code that interfaced with RS232 devices and MAC layer protocols; programmed a web application for device configuration; and implemented a server backend to manage the device on a network. Developed using C, PHP, and SQL.

PROFESSIONAL MEMBERSHIP

Electrical and Computer Engineering Honor Society (HKN), Epsilon Chapter, University of Southern California (December 2010-Present).

USC Robotics Society, University of Southern California (September 2010-Present).

Association for Computing Machinery, UC Santa Barbara Chapter (April 2007-June 2009).

Actively organized and participated in many academic and social ACM activities. Tutored an engineering student throughout his lower division classes as part of the ACM Mentor Program.

References provided upon request.