

AFEIQUE SHEIKH

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EDUCATION

B.S. in Electrical and Computer Engineering

Senior, Capstone Complete

CARNEGIE MELLON · PITTSBURGH, PA

Working on general education requirements for degree, expected graduation Fall 2017

Intro to Computer Systems	Computational Techniques in Engineering
Advanced Java Programming	Programming in C/Unix
Sensor System Design	Signals and Systems
Analog Devices and Circuits	Structure and Design of Digital Systems

LANGUAGES & SOFTWARE

C/C++, x86(-64), Bash, PHP, Perl, Python, JavaScript, Java, ActionScript 3, Tcl/Tk, Matlab, SystemVerilog, XML, HTML, CSS & SASS, Photoshop, Git, SVN, CVS, MySQL, PostgreSQL, LabVIEW

EXPERIENCE

Test Automation Engineer

November 2015 - Present

BOSCH SECURITY SYSTEMS · FAIRPORT, NY

- » Lead test automation engineer for Installer Services portal, wrote over 600 comprehensive unit-tests using py.test and Selenium for testing entirety of software portal (Python, HTML, CSS)
- » Responsible for designing test procedures and automated solutions for new software that will interface with panels using remote-operation protocol
- » Functioned as department liaison to engineering team for testing security panel remote-operation protocols, including maintaining related test procedures
- » Wrote scripts to interface with National Instruments Digital Acquisition hardware using Python wrappers over NI C DAQmx APIs
- » Extended and refined basic LabVIEW test automation by modularizing components and writing Python-based report generation subsystem (Python, HTML, CSS)

Python, PHP, MySQL Engineer

May 2015 - November 2015

PNC BANK · PITTSBURGH, PA

- » Learned development of Zenoss Plugins (Zenpacks) using zenpacklib (Python)
- » Extensively researched and learned FuelPHP MVC framework and Silex, Flight, Fat-Free micro-frameworks (PHP, MySQL)
- » Developed a feature request system, from schema through logic and UI/UX, using FuelPHP, Bootstrap, and jQuery (PHP, MySQL, HTML, CSS, JavaScript)

Linux Engineer

June 2014 - January 2015

TIMESYS CORPORATION · PITTSBURGH, PA

- » Re-implemented boot-testing scripts to add URI handling, database logging, and enhanced network efficiency (Perl, PostgreSQL, Bash)

- » Developed web UI for boot-testing system and inventory management using web.py (Python, PostgreSQL, HTML, CSS, JavaScript)
- » Created interface for tracking build failures and submitting bugs (Python, Perl, HTML, CSS)
- » Administered local drone-network for continuous-integration using Python, pip, and virtualenv
- » Tested the Freescale i.MX53 QSB and TI AM335X Sitara embedded boards

Programmer, QA Analyst

Spring 2012

UNIVERSITY OF ROCHESTER · ROCHESTER, NY

- » Worked on URGlobal initiative using CodeIgniter framework
- » Focused on controller logic and UI (PHP, HTML, CSS, JavaScript)
- » Added functionality to database models (PHP, MySQL)
- » Designed automated browser regression tests for quality assurance
- » Wrote compatibility patches in anticipation of server upgrades (PHP)

Digital Design Intern, Kitson Cache Team

Fall 2011

INTEL CORPORATION · HUDSON, MA

- » Worked on improving regression testing and validation software (Tcl/Tk)
- » Created CLI for querying data from CAD characterizations (Perl)
- » Focused on CAD of VLSI gate structure, silicon layout, and timing

Web Programmer

Spring 2011

IZIKS INTERACTIVE · PITTSBURGH, PA

- » Developed web software for clientele using in-house CMS framework (PHP, MySQL)
- » Strong focus on improving UIs (HTML, CSS, JavaScript and AJAX using jQuery)

HONORS & AWARDS

Dean's List (Fall 2010) · Xerox Technical Minority Scholarship (Spring 2009)

William Orr Dingwall Grant (2008–2012) · Pittsford Sutherland Honors Graduate (June 2008)