ADEWALE DESALU

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EXPERIENCE

Engineering Intern
QuantMD LLC, Pittsburgh, PA
Summer 2013
Researched machine learning algorithms for cardiovascular MRI diagnostics applications. Project included working in MatLab.

Database Engineer Intern
Main One Cable Company, Lagos, Nigeria
Summer 2012
Developed an organized data dictionary to restructure the database foundation and coordinate information systems. Worked with a team to fix networking and security issues of the databases. Worked with Microsoft Access and in mySQL, C, and Python.

Independent Study Researcher
People Personification TV Prototype
Human Computer Interaction Institute
Fall 2011
Prototyped and developed a project interface for android application development in an effort to efficiently improve a family server based organizer and improve user experience. Project involved working in Python.

Electronic Services Intern
OMATEK Computers, Lagos, Nigeria
Summer 2010
Worked on a team to fix software and hardware issues electronic equipment ranging from networking malfunctions to interface and hardware failures.

PROJECTS

Scottie Dock, BME Design Project, Spring 2013
Developed a a mobility assist device designed to help those, primarily the elderly, who suffer from limited mobility and are confined to a manual wheelchairs but would enjoy more degrees of freedom without purchasing expensive equipment. Created, with a team of diverse engineering backgrounds, a cheaper mechanical and electrical system attachment for a motorized scooter to connect to the manual wheelchair, effectively converting the manual wheelchair into a power wheelchair.

Proxy Lab, 15213, Summer 2013
Developed a thread-based concurrent proxy that utilized cache in order to be more efficient handler of data

Memory Allocator Lab, 15213, Summer 2013
Developed a simple dynamic storage allocator for C programs utilizing explicit lists data structure

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Expected Graduation: May 2014
B.S. Electrical & Computer Engineering
B.S. Biomedical Engineering

COURSEWORK (* Fall 2013)

18349 Embedded Real Time Systems*
18370 Fundamentals of Control*
15213 Introduction to Computer Systems
15122 Principles of Imperative Computing
18240 Structure of Digital Systems
18220 Electronic Devices and Analog Circuits

18496 Biomedical Imaging and Image Analysis*
18290 Signal and Systems
42447 Rehabilitation Engineering
16264 Humanoids
42702 Physiology
70414 Tech. Entrepreneurship for Engineers

TECHNICAL SKILLS (* Fall 2013)

Languages
C, Python, HTML, CSS, SystemVerilog, mySQL, Objective-C*, Ruby*

Applications
Microsoft Office, Microsoft Access, Matlab, ModelSim, LabVIEW, LaTeX, Xcode, AutoCad, Adobe Photoshop, Adobe InDesign, Adobe Illustrator

Environment & Tools
Windows OS, Mac OS X, Linux/Unix, Git, Django, iOs, Heroku

LEADERSHIP

National Society of Black Engineers, Active Member
Young African Leaders Association, Public Relations Chair
Residential Advisor, 2011-2013
Interational Student Union, Executive Board
Carnegie Mellon Turntable Crew, Active Member