

Vishalsai Daswani

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Bachelor of Science in Electrical & Computer Engineering **GPA: 3.59/4.00**
Additional Major in Computer Science

May 2014

RELEVANT COURSEWORK

Distributed Systems*

Principles of Functional Programming*

Embedded Real-Time Systems

Great Theoretical Ideas of Computer Science

Principles of Software Construction

Introduction to Computer Systems

*Spring 2013

COMPUTER SKILLS

Programming Languages: Python, Java, C, SML*, Assembly, System Verilog, Visual Basic

Software: Eclipse, IntelliJ, Xcode, MATLAB, Xilinx, ProEngineer (CAD)

Operating Systems: MacOS 10.6/10.7, Red Hat Linux, UNIX, Windows XP/Vista/7

WORK EXPERIENCE

Bazaarvoice, New York – Software Engineering Intern

May 2012 - Aug. 2012

- Developed a web application to display client connections and suggest new connections
- Designed a MySQL database to store client syndication edges and their properties
- Created the backend stack joining an API to the MySQL database (Spring, Hibernate)
- Introduced an algorithm to automatically detect new syndication edges between clients

Development Solutions Organization – Technology Team

Sept. 2012 - Dec. 2012

- Created a web application to better record and handle simulation data for Pronto Intl.
- Programmed the backend local database handling and frequent update pushes to Amazon Web Services (AWS)

The Lantau Group, Hong Kong – Database Administrator

June 2011 - Aug. 2011

- Modeled and created database used for simulation and optimization of Fuel Market
- Constructed a database structure to audit a multi-billion dollar vesting contract in Western Australia and compiled reports on data findings
- Algorithmically organized and assessed quality of electricity meter readings

PROJECTS

Phone Tag – Android Game of Tag

Jan. 2013

- Developed a backend web server to handle requests from Android devices
- Created a program to calculate distances between different geographical locations using Google Maps API
- Wrote a script to automate email notifications to people (extra game feature)

HUMI – Facial Recognition System

Jan. 2012

- Led a four-person team to develop a person-detection system
- Programming a facial recognition system by adopting Intel's OpenCV libraries (C++)
- Modifying room conditions based on individual user preference
- Using sockets for SQL database (server) and local client communication

Rubix Cube Solver

Oct. 2010 - Dec. 2010

- Programmed an interactive Rubix Cube Solver (Python) allowing user to play with a virtual Rubix cube through the user interface
- Wrote an algorithm to solve a random user inputted Rubix cube, and present the solution systematically

ACTIVITIES

OM Organization – Current: President, Previous: Vice President

Sept. 2010 - Present

- Lead a team of 9 students to plan and organize few dozen events a year
- Organized annual cultural and spiritual events with over 450 attendees
- Started several new events and initiatives which have gained popularity on campus

Carnegie Institute of Technology – First-Year Advisory Board

Sept. 2010 - May 2011

President (Board: 12 First-Year CIT Students)

- Initiated several new community building events, which successfully brought together many engineering students, and has been repeated by following executive board
- Developed new documentation system to improve board transitions and future growth