

Maryam Ahmed Aly

US Citizen

Contact

5032 Forbes Ave
SMC 6222
Pittsburgh, PA 15289
(864-) 316-7045
maryam@cmu.edu

Relevant Coursework

Linear Algebra

Graph Theory

Mathematical Logic

Distributed Systems

Machine Learning

Formal Languages, Automata
and Complexity

Technology and Global
Development

Current Coursework

Combinatorics

Number Theory

Selected Course Projects

Distributed File System

Distributed Systems

- Implemented in C++
- Partnered lab
- Local caching with close-to-open consistency

Naive Bayes Classifier

Machine Learning

- Implemented in Python
- Classified whether political blogs were conservative or liberal

Malloc Lab

Intro to Computer Systems

- Implemented in C
- Explicit list implementation

Education

Carnegie Mellon University

Expected May 2012

Major Computer Science

Minor Discrete Mathematics and Logic

QPA 3.03

Honors Carnegie Mellon Scholar

Skills

Programming Languages C, Java, Python, SML, Perl

Databases HBase, MySQL, MongoDB

Version Control Subversion, git

Software gdb, JMeter, L^AT_EX

Other Hadoop, Amazon Web Services

Work Experience

TA for Principles of Imperative Computing

 Sep 2011 - Dec 2011

Carnegie Mellon University

- Teach two recitations a week
- Write test scripts and hand grade assignments

Software Engineering Intern

May 2011 - Aug 2011

Chomp

- Created tool in python to run experiments for researchers on EC2
- Wrote software in python to find trending Chomp queries

TA for Graph Theory

Jan 2011 - Apr 2011

Carnegie Mellon Qatar

- Teach in two recitations weekly
- Assist in making and grading assignments and tests

Software Development Intern

May 2010 - Aug 2010

AOL Antispam Team

- Ran performance testing of HBase vs MySQL
- Wrote HBase database manipulations using Hadoop
- Tested Mahout's Latent Dirichlet Allocation for topic modeling

Community

Member USTSF

United States Table Soccer Federation

- Compete in ITSF foosball tournaments (International Tour)
- Compete in IFP foosball tournaments (North American Tour)

Chaperone and Canon Volunteer

Aug 2009, Aug 2010

North American Canon Envirothon

- Helped chaperone South Carolina team
- Monitored testing

Extracurricular Activities

Selected *Vice President* CMU Foosball Club

Selected *White Rose* Sigma Tau Gamma Fraternity