450 Memorial Dr. Room C-122
Cambridge, MA 02139

Michael Mekonnen

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Education

Massachusetts Institute of Technology (MIT), Cambridge, MA *June, 2013 (expected)*
Candidate for Bachelor of Science degree in Computer Science and Electrical Engineering (EECS)
Candidate for Bachelor of Science degree in Mathematics
EECS GPA: 5.0/5.0; Mathematics GPA: 4.83/5.0; Overall GPA: 4.95/5.0

Work Experience

Google: Building Opportunities for Leadership and Development Practicum [C++] *Cambridge, MA*
Position: Software Engineering Intern *Summer, 2011*

- Worked on the Chromium OS project (Chrome OS is an operating system built around the Chrome web browser)
- Added a feature to the Network Usage Tracking package that records daily bandwidth usage
- Worked on improving the abstract representation of cellular data plans

MIT: Laboratory Assistant *Cambridge, MA*
Class: Mathematics for Computer Science *Fall, 2011*
Class: Introduction to EECS I [Python] *Fall, 2010*

- Guided students through lab, class-work, and home-work assignments

Research Experience

MIT: Undergraduate Research Opportunities Program [Python] *Cambridge, MA*
Position: Research Assistant *Spring, 2011 – Present*

- Designed, implemented, and released for use the Urban Network Analysis Toolbox for ArcGIS 10, a toolbox that measures the accessibility / centrality of buildings in street-networks
- Designed and implemented an algorithm to efficiently compute 5 centrality measures on a graph
- Presented the toolbox at the 2012 ESRI GeoDesign Summit
- Will soon publish a paper describing the toolbox in detail

National Institute of Health (NIH): Lab of Biological Modeling [Python, MatLab] *Bethesda, MD*
Program: Pre-Doctoral Intramural Research Training Award *Summer, 2010*

- Designed and implemented computational methods to predict Transcription Factor – DNA Probe binding intensities in response to a challenged presented in the 5th annual Dialogue for Reverse Engineering Assessments and Methods
- Composed a poster and presented methods and findings at an NIH poster session

Skills

Computer: Proficient in Python, Java; Experienced in C++, HTML, CSS, JavaScript, MatLab
Language: Fluent in Amharic, English; Basic Spanish

Projects / Interests

[Project] Designed and implemented a Rubik's Cube solver with an interactive GUI [Java] *2008-09*
[Interests] Graph theory; Software development

Honors /Awards

Ron Brown Scholar; Collegiate Directions Inc. Scholar

Volunteer Experience / Extracurricular Activities

Habitat for Humanity: assist at construction sites; MIT Intramural Soccer; MIT Intramural Tennis – captain