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Silver Spring, MD 20904

**Michael Mekonnen**

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## **Education**

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**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: 4.9/5.0; Overall GPA: 5.0/5.0

## **Work Experience**

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

- Worked on the Chromium OS project
- Added a feature to the Network Usage Tracking package that records daily bandwidth usage
- Improved 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**

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**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
- Presented the toolbox at the 2012 ESRI GeoDesign Summit and the 2012 AAG Annual Meeting
- Received the SimAUD Outstanding Paper Award at the 2012 Spring Simulation Multiconference

**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 challenge presented in the 5<sup>th</sup> annual Dialogue for Reverse Engineering Assessments and Methods
- Composed a poster and presented methods and findings at an NIH poster session

## **Skills**

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

## **Projects / Interests**

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

## **Honors /Awards**

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Member of Eta Kappa Nu and Tau Beta Pi Honor Societies  
Ron Brown Scholar; Collegiate Directions Inc. Scholar

## **Volunteer Experience / Extracurricular Activities**

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MIT Ethiopian and Eritrean Students Association – President; MIT Intramural Tennis – Captain; MIT Intramural Soccer; Habitat for Humanity: assistant at construction sites