

TSION BEHAILU

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EDUCATION

University of California, Berkeley

Major: Computer Science

August 2011 - May 2015

SKILLS

- Java, Ruby, C, Python, Matlab, L^AT_EX, AutoCAD
- Eclipse, Teradata, Ruby on Rails, Coda, XCode, Hadoop, Logism

EXPERIENCE

Software Engineering Intern - Groupon, Palo Alto, CA

June 2014 - August 2014

- Automated the collection of page performance metrics for the SEO team. Wrote clients for various external APIs, such as Dotcom-Monitor and Pingdom, to collect the performance statistics of SEO pages and integrated these into a rails application. Scheduled cron jobs regularly pull the page performance data to a MySQL database, and then add the data to Teradata. Application was deployed to production and is now accessible to all Groupon teams.

Research Assistant/Marketing Director - Institute for Law and Policy Planning, Berkeley, CA

October 2011 - Present

- Shaped the marketing structure of ILPP to produce better results in both news searches and RFPs, ultimately leading to more jobs for the organization.

PROJECTS

Information Communications Technologies (ICT) Development for Sub-Saharan Farmers

August 2014 - Present

www.tsionbehailu.me/research

Advisor: Prof. Tapan Parikh, School of Information

- Designing ICTs to Increase Smallholder Farmers' Access to Markets and Knowledge. Identify needs and defines opportunities through innovative ICT-based applications and systems which can increase agricultural small-holder productivity, profitability, and sustainability
- Funded by NSF, CRA-W, CDC

Pacman Search & Multi-Agent Pacman

February 2014

- Built general search algorithms and applied them to pacman agent to find paths through a maze. Designed additional agents for game, implementing both minimax and expectimax search.

Processor Design

November 2013

<https://github.com/tbehailu/Processor.git>

- Used Logisim to create a 16-bit two-cycle processor. Designed the processor's register file to manage the four 16-bit registers in the Instruction Set Architecture (ISA) and the ALU to do a total of ten operations. Built the Data Memory using a built-in Logism RAM module. Wrote two MIPS functions for additional testing of the final CPU design.

BestRegards.co: Handwritten Thank You Cards Generator

October 2013 - Present

www.bestregards.co

- Co-founded a web service that automates handwritten thank you cards using Ruby on Rails. Implemented a custom-built calculator in JQuery that informs users how much time they would save by using BestRegards from the number of attendees at their wedding. Built an ecommerce platform and integrated Stripe's API to accept payments.

Bird Bounce: An iOS Mobile Game

October 2013 - Present

<https://github.com/tbehailu/BirdBounce>

- Developed an iOS mobile game with a partner on Kobold2D, a 2D game framework. All graphics were done using Adobe Illustrator.

COURSEWORK

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|---|---|--------------------------------------|
| • Artificial Intelligence | • Discrete Mathematics & Probability Theory | • Physics for Scientists & Engineers |
| • Machine Learning | | • Economic Theory-Micro |
| • Data Structures & Programming Methodology (<i>Java</i>) | • The Structure & Properties of Civil Engineering Materials | • Technology Entrepreneurship |
| | | • Introduction to Finance |

ACTIVITIES

Square College Code Camp

January 2014

One of twenty female CS students chosen from the U.S. and Canada to participate in a four-day immersion program at Square HQ. Completed workshops in CSS architecture, iOS Development, and Security Engineering.

Winter Academic Training Camp (WAT Camp) - Computer Science Instructor

January 15-19, 2014

www.tsion.me/wat-camp-2014

Instructor for CS61A: Structure and Interpretation of Computer Programs at WAT Camp. Covered elements of programming, lambda functions, environment diagrams, sequences, objects and classes, and more. Course was conducted in Python.

Undergraduate Study Committee - L&S Computer Science Representative

September 2013 - Present

Aid in the making of departmental decisions with the Computer Science Department faculty and staff as a representative for Letters & Science Computer Science students.

Cal N.E.R.D.S. - Researcher for Cal New Experiences for Research & Diversity in Science

March 2013 - Present

HASA - Member of Horn of Africa Student Association

August 2012 - Present