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Vinay Hiremath

Education

(Expected) Aug. 2013–May 2017 **University of Michigan**, Ann Arbor, MI.
Majoring in Computer Science (Major GPA: 3.9/4.0) and Cognitive Science (Computational) with a Minor in Mathematics. Enrolled in the LS&A Honors Program with a major annual scholarship.

Feb. 2010–May 2013 **International Academy**, Bloomfield Hills, MI.
Graduated with an International Baccalaureate Diploma (GPA: 3.86/4.0) after having taken Higher Level courses in Physics, Biology, Math, and Spanish with Standard Level courses in English and History. (Score of 36 on the ACT and 2330 on the SAT)

Experience

Sept. 2016–Present **Research Assistant**, *University of Michigan EECS*, Ann Arbor, MI.
Working with Lajanugen Logeswaran in Prof. Honglak Lee's research group to apply deep learning techniques to natural language processing (NLP). Some potential goals are improving semantic vector representations for sentences, language generation, etc.

May 2016–Sept. 2016 **Engineering Intern**, *SalesforceIQ*, Palo Alto, CA.
Worked with the Platforms team to modify all backend services for deployment on multiple datacenters, including handling dynamic configuration management, health checks, and Docker containerization using tools such as Consul by HashiCorp.

Jan. 2016–May 2016 **Instructional Aide (TA)**, *University of Michigan EECS*, Ann Arbor, MI.
As a TA for EECS 445 (Intro. to Machine Learning), created projects and problem sets to provide students with practice on ML techniques taught in class. Held weekly discussion sections to review material and office hours for individual questions.

May 2015–Aug. 2015 **Backend Intern**, *FarmLogs*, Ann Arbor, MI.
Worked in the Clojure language to add new features to a backend. Gained experience in developing APIs, including interfacing with web/mobile clients and databases (PostgreSQL). Worked with ingesting large datasets including nationwide soil data, etc.

Oct. 2014–Dec. 2014 **Research Assistant**, *University of Michigan EECS*, Ann Arbor, MI.
Worked with Dr. Satinder Singh Baveja and Dr. Richard L. Lewis on a more domain-independent implementation of computational reinforcement learning. Learned the necessary background material by covering relevant papers.

Jan. 2011–Dec. 2014 **Webmaster, Youth President**, *Veerashaiva Samaja of Michigan*.
Constructed a website (`http://vsmi.org`) that manages event information including handling member RSVP and potluck submissions using the WordPress CMS. Organized a food bank service trip and can drive.

March 2014–Aug. 2014 **Computer Consultant**, *University of Michigan - Housing/Dining*, Ann Arbor, MI.
Developed several web forms on a Google App Scripts backend that input data into a spreadsheet and send email notifications.

Sept. 2013–May 2014 **Research Assistant**, *Undergraduate Research Opportunity Program, Brooks Lab, Univ. of Michigan*, Ann Arbor, MI.
Worked with Prof. Charles Brooks III on a computational biophysics project involving the evaluation of potentially more efficient protein folding simulation methods. Improved skills in generating and visualizing large quantities of data.

Activities

Sept. 2013 to Present Participated in various hackathons: MHacks Fall 2015 (Top Five Hack), Hack the North Fall 2014, PennApps Fall 2014, MHacks Fall 2014, McHacks Spring 2014, MHacks Fall 2013, HackMIT Fall 2013.

Sept. 2014–Jan. 2015 Member of the Michigan Hackers Core Team in charge of hosting a workshop for beginner hackers, for which the goal was to encourage involvement in side projects (hacks). Created slides to teach the basics of JavaScript/Node.js along with a template project in Node.js for students to emulate.

Sept. 2014 to Present Member of the technology team on the optiMize Core Team, where I built the base API for newsletter submissions and team information, having the opportunity to further the organization's goals of social innovation.

May 2015–Aug. 2015 Member of the MHacks 6 Core Team, developing the backend for the sponsor portal which allowed sponsors to easily search through, filter, and star hackathon applicants for recruiting purposes.

Relevant Coursework

Comp. Science Intro. to Natural Language Processing (Current), Intro. to Algorithms - EECS 477 (Current), Information Retrieval and Web Search, Intro. to Machine Learning, Data Structures and Algorithms, Fundamentals of Computer Science, Intro. to Computer Organization, Programming and Introductory Data Structures

Quantitative Intro. to Combinatorics, Intro. to Probability, Linear Algebra, Discrete Math, Intro. to Stats and Data Analysis

Technical Skills

Proficient with Python, C++, Clojure, Java, scikit-learn, Bash, Git, Ubuntu & Arch Linux, Mac OS X

Experience with Torch, Haskell, JavaScript, Go, R, MATLAB, Spark, React, Docker, GDB LaTeX, Vim, Emacs