Norman Mu

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Education

University of California, Berkeley
Bachelor of Arts *2014 – 2018*
Double Major: Computer Science & Applied Mathematics, 3.86 GPA
Technical Coursework: Efficient Algorithms, Computer Security, Artificial Intelligence, Computational Biology, Computer Architecture, Data Structures

Experience

Agari   SAN MATEO, CA
Software Engineering Intern *May '16 – Aug '16*
Email security software for enterprise clients, on the anti-spearphishing team. Contributed a series of features adding a dashboard column, improving diagnostic graphs, and extending command line functionality of Apache Airflow. Created an administrative dashboard detailing status of clients for use by customer success team to diagnose server malfunctions.

Infinite Uptime   BERKELEY, CA
Research Assistant *Jan '16 – Apr '16*
Predictive analytics IOT sensor for manufacturing equipment. Worked to verify the integrity of optimized floating and fixed point computations performed by the firmware onboard the sensor module by creating new firmware version that fed data directly into Python program on laptop via USB serial for verification against standard MATLAB library functions.

Blockchain @ Berkeley
VP of Operations *Aug '15 – May '16*
Helped to organize Bay BitHack 2016, the second iteration of the world's first intercollegiate hackathon dedicated to Bitcoin and cryptocurrency, by overseeing logistics and acquiring sponsors. Also managed various internal club affairs.

Skills

Programming languages: Python, Javascript, Java, Ruby, C, Haskell

Technical Skills: Ember.js, Ruby on Rails, Flask, HTML/CSS, SQL

Hackathons: Big Hack 2016- annual hackathon with Berkeley and Stanford students focused on social good. Won first prize in our nonprofit category by prototyping decentralized SMS payment system on the Stellar blockchain platform.

Personal Projects

Bitcoin High Frequency Trading: Currently developing on a HFT marking making bot in Haskell to operate Coinbase's GDAX Bitcoin exchange.

Classroom Scheduler (github.com/normster/ClassroomScheduler)
Tool to scrape schedule of classes in Python to enumerate time and location of empty classrooms and store data in SQLite database. Currently building web app in Flask to display data.

Optimal Kidney Donation Chains (github.com/normster/CS170):
Algorithms course final project. First designed 5 very difficult problem instances of NP-complete problem of finding kidney donation chains. Then designed, implemented, and executed an approximation algorithm in Python on all instances submitted by classmates, and placed second in class of over 500.

Personal Website (normanmu.com)
Personal website (and blog) built with Jekyll and hosted on NearlyFreeSpeech