

MINA HAN

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EDUCATION

B.A. Computer Science
Intended grad: May 2016

UNIVERSITY OF CALIFORNIA, BERKELEY

Classes including: Artificial Intelligence, Computing Data, Computer Security, Databases, Discrete Mathematics, User Interfaces, and all lower-division requirements

EXPERIENCE

Software Engineering Intern
Summer 2015

HEWLETT-PACKARD ENTERPRISE

Kickstarted deployment with Docker and AWS Beanstalk on Ubuntu and CentOS, continuously integrated with TeamCity
Wrote API for Sails JS application to retrieve DNS data from Vertica database for malware analytics application on Sails JS. Replaced Java server and sped of querying by 400-500% with new API
Automated packet creation from HP's Cyber Defense Center's logs to test a packet capture appliance (using scapy)

Bioinformatics Intern
current

UC BERKELEY DEPT. OF BIOENGINEERING

Volunteer engineering software to process big data (genetics data and research papers) for a gene synthesis research (R, Java, Python)

Software Engineering Intern
Summer 2014

ADRISE

Developed front-back connection, front-end, and analytics on Express JS application (Mixpanel, JS, Bootstrap JS)
Developed PHP scripts for video-streaming and worked on API

Software Engineering Intern
Summer 2013

ADITAZZ INC

Used Kaiser REST API to pull medical facility data (PHP, ajax, JS) to create a data visualization on functionalities of Kaiser sites on a KML file
Designed and implemented storage of this data with MySQL

Food Service
Summer 2012

BACON BACON SF

Hand-made around 100 pieces of chocolate covered bacon
Manned cashier and kept track of itinerary

PERSONAL PROJECTS

Fall 2014-Spring 2015

AWARD-WINNING DATA VISUALIZATION WEB APPLICATION

Top 3 out of 200 teams in UC Berkeley's Big Idea contest
Placed within 95th percentile in YCombinator fellowship
Wrote D3/JS for automating a variety of data visualizations from any user input and R scripts to clean and analyze data sets
Co-led student group of graduate and undergraduates in project management

Summer 2014

PATHOLOGY QUIZZING WEB APPLICATION

Engineered initial MVC using Angular JS and MySQL for a UC Davis Medical School professor

Spring 2015

UI/UX OF ANDROID APPLICATION

Designed user flow and UI/UX of an android application for keeping track of plant growth for the Citris Mobile App Challenge
Wrote web-scraper to grab data from plant websites

ACADEMIC PROJECTS

WORD-ANALYSIS PROJECT (JAVA)

Implemented Hadoop Mapreduce to find co-occurrence rates of input words in large text files
Run on Amazon EC2 servers

ARTIFICIAL INTELLIGENCE PACMAN SOLVER (PYTHON)

Used Bayes Network, MDPs and Q-Learning to make Pacman finish game successfully (avoid ghosts, eat all the food, etc)

IMAGE PROCESSING OPTIMIZATION (C)

Optimized algorithms for 2D image convolution
Multithreaded with Intel SSE and Open MP, developed on Dell Precision T5500 Workstation

SKILLS

TECHNICAL

Python, Java, Javascript, R, C, Bash, HTML, CSS, PHP, SQL, SQLite, Express JS, Sails JS, Node JS, Docker, jQuery, Scheme, D3, LaTeX, Android

SPOKEN

English (fluent), French (fluent), Mandarin (beginner), Japanese (beginner)