Mina Kobayashi Han

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Education

B.A. Computer Science
University of California, Berkeley
Expected Graduation: May 2016

Relevant Coursework:
- Artificial Intelligence
- Computer Architecture
- Computing Data
- Computer Programs
- Computer Security
- Databases
- Data Structures
- Discrete Mathematics & Probability
- Machine Learning
- Compilers/Interpreters

Technical Skills

Main Programming Languages:
- Python
- Java
- JavaScript

Additional Technical Skills:
- MySQL
- Bash scripting
- Angular JS, Express JS Sails JS, Node JS
- jQuery
- PHP
- C, R, LaTeX, Scheme
- RJ Metrics/Mixpanel/ Google Analytics
- Matlab
- HTML,CSS

Additional Skills

Spoken Languages:
- English (fluent)
- French (fluent)
- Mandarin (beginner)
- Japanese (beginner)

Activities/Interests:
- Cal Dragon Boat
- Berkeley Technology Review (writer)
- Sigma Omicron Pi (Asian interest sorority)
- Telling bad jokes

Experience

Software Development Intern
Hewlett-Packard (ArcSight) | Sunnyvale, CA | Summer 2015
- Implemented Docker and bash scripts with the usage of AWS Elastic Beanstalk to deploy web application onto the cloud (Ubuntu and CentOS), continuously integrated and automated with TeamCity
- Wrote API for Sails JS application to retrieve data on DNS queries and replies from Vertica database (application did malware analytics)
  - Replaced java server that originally queried the database and made querying and data processing 4-5x faster with new API
- Automated packet creation from lifestream of request logs from Hewlett-Packard's Cyber Defense Center to test packet capture appliance in malware analytics application

Software/Front-End Engineering Intern
Adrise | San Francisco, CA | Summer 2014
- Developed front-end and analytics of Express JS application for video-streaming (Mixpanel, JavaScript, Bootstrap JS)
- Developed PHP scripts for video-streaming

Software Engineering Intern
Aditazz | San Bruno, CA | Summer 2013
- Used a Kaiser-given API to pull data on medical facilities (PHP, ajax) to create data visualization on a KML file
- Scripted architecture graphics in Rhino through Grasshopper interface (python)

Kitchen Service/Cashier
Bacon Bacon SF (Off The Grid) | San Francisco, CA | Summer 2012
- Produced around 500 pieces of premium chocolate-covered bacon sprinkled with Heath bar bits per day

Projects

Personal:
- Award-Winning web application for Big Ideas at Berkeley
  - Wrote streamlined D3 and R scripts for data analysis, cleaning, and visualization
  - Top 3 out of 200 teams in Big Ideas at Berkeley
  - Placed within the top 95th percentile in YCombinator fellowship
- Pathology-Quizzing Application for UC Davis Medical Students
  - Engineered initial prototype and layout with Angular JS and MySQL to help gain funding for a health tech startup

Academic:
- Word-analysis project (Java)
  - Implemented Hadoop Mapreduce to find highest co-occurrence rates of words
- Git-Immitation (Java)
  - Heavy use of serialization to write application with most of the functionalities of Github
- Machine-Learning Data Classification (Python)
  - Used Python's mathematical libraries and SVMs to classify emails in spam vs ham categories
- Artificial Intelligence Pacman Game Solver (Python)
  - Used Bayes Network and MDPs to make Pacman finish the game successfully (eating food, avoiding ghosts, etc)