

Rey Tang

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EDUCATION

UNIVERSITY OF CALIFORNIA – SANTA BARBARA

Santa Barbara, CA

College of Engineering

2014 – Fall 2018 (Expected)

M.S. Computer Science, Music Minor

Cumulative GPA: 3.82, College of Engineering Honors

SKILLS & ABILITIES

- Languages : Java , C , C++ , Ruby , Scala , Javascript (ES6) , Python , SQL , C#
- Frameworks/Libraries : Kafka , Storm , Mesos , Spark , Ruby on Rails , React/Redux , d3.js , ASP.NET 4.0
- Other Skills : Mandarin Chinese (Traditional) , Photoshop , Wireframes , GIMP
- Interests : Blogging , Entrepreneurship , Music Composition , Meditation , Singing

EXPERIENCE

ENGINEERING INTERN – Groupon | Palo Alto, CA

June 2017 – Present

- Contributed to open source project, Storm on Mesos, to launch containerized logviewer daemons automatically
- Trained machine learning models with historical metrics data to predict health of running applications on Yarn
- Updated Kafka manager to peek data in topics and decode through a generic Service Provider Interface

SOFTWARE DEVELOPMENT INTERN – PROCORE | Santa Barbara, CA

June 2016 – September 2016

- Built out API end-points and serializers for internal and external consumption
- Constructed SQL queries to extract data and create meaningful data visualizations
- Paired with both front-end and back-end engineers to implement a new reporting dashboard
- Created a chatting client MVP for the Procore application utilizing React on Rails

TECHNOLOGY HEAD – ALPHA KAPPA PSI | Santa Barbara, CA

January 2016 – June 2016

- Created the technology committee to foster the appreciation and need for engineering in business
- Led a tight-knit committee of six to implement sign-in and online applications for prospective members
- Converted the entire website from the outdated PHP framework to Ruby on Rails
- Designed and created the IV Connect catalogue, a fraternity fundraising venture

SOFTWARE DEVELOPMENT INTERN – AUTOVITALS | Goleta, CA

October 2015 – April 2016

- Utilized ASP.NET and d3.js to create a dashboard which tracks shop efficiency, effectiveness, and performance
- Created dynamic reports that indicated the effectiveness of each service-advisor/technician pairing
- Implemented monitoring system to track the completion of product onboarding with Google Apps Script

PROJECTS

MAP-REDUCE REPLICATE (Python) | Distributed Systems

May 2017 - June 2017

- Designed and built map-reduce programming model to compute word count on a cluster
- Implemented Paxos to provide consensus among replicated logs with state recovery on up to 1/3 node failures
- Created simple CLI to handle job submission and run simple data transformations on replicated logs

WANDERLEASE (Ruby) | Co-Founder

January 2017 - Present

- Designed clustering algorithm for automated tenant matching
- Won 3rd place in the New Venture Competition for prospective start-up businesses
- Conducted thorough market validation, interviews, research, and UI/UX testing

KOS (C) | Operating Systems

January 2017 - March 2017

- Designed and created simple operating system mounted on a DEC MIPS R3000 simulator
- Implemented all basic UNIX system calls including fork, exec, wait, pipe, dup, dup2, sbrk, etc.
- Utilized fixed-partition memory design and round-robin scheduling scheme for process management

CAREER FAIR RECRUITING APP (Objective-C) | Workday

September 2016 - March 2017

- Utilized D&C methodology to create a machine learning model dividing resume into relevant pieces
- Created parser successfully extracting contact information from resume image with OCR technology
- Acted as scrum master in group of five, facilitating ticket management and agile development