Tony Situ

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EDUCATION

UC BERKELEY

BS in Electrical Engineering and Computer Science
Expected May 2018 | Berkeley, CA
Conc. in Software Engineering
College of Engineering
GPA: 3.573

LINKS

Github:// c2tonyc2
LinkedIn:// c2tonyc2

COURSEWORK

UNDERGRADUATE

Machine Structures
Discrete Math and Probability Theory
Information Systems and Devices
Artificial Intelligence
Productive Use of the Unix Environment

(Student & Lab Assistant)
Structure and Interpretation of Programs
Data Structures

SKILLS

PROGRAMMING

Experienced:
Java • Python • Django
Proficient:
Unix • JavaScript • CSS
HTML
Familiar:
C • C++ • PostgreSQL
Ruby on Rails

SOFTWARE

Experienced:
Openstack
Proficient:
Docker • Jenkins • Ansible
Git • libvirt

AWARDS

Regents' and Chancellor's Scholar
Rose Hills Foundation Science and Engineer Scholar

EXPERIENCE

EMC | Software Engineering Intern (Neutrino Engineering)

May 2016 – Present | San Francisco, CA

- Verified feature implementation and fixes for QE tickets prior to v1.1 release.
- Scripted networking procedures such as the expansion of floating ip address blocks and the reassignment of floating ip relations to VM instances.
- Extended automated testing suite with additional verification jobs in Jenkins.
- Integrated and debugged an object storage component for v2.0 release.

MCORELAB | Software Engineering Intern

June 2015 – Aug 2015 | Reno, NV

- Extended API of OpenStack (Horizon and Nova) to include new features.
- Developed GUI and web framework for a memcached management platform.
- Automated product installation and patching on remote servers.
- Scripted vNIC attachments and vCPU affinity assignments for virtual instances.
- Adapted ini file parser to allow users to customize default cloud configuration settings and launch parameters for instances.

UC BERKELEY ACADEMIC INTERN | Lab Assistant

Jan 2015 – Present | Berkeley, CA

- Cooperated with staff members to prepare, review, and debug the curriculum.
- Tutored various students to facilitate their understanding of core CS concepts.

AIR QUALITY SENSORS | Undergraduate Research Apprentice

Februrary 2016 - May 2016 | Berkeley Institute of Data Science

- Collected telemetry from Manylabs air quality sensors and ran raw data comparisons against EPA readings to measure the difference in performance.
- Applied algorithms on the Manylabs sensors to improve accuracy of the data to best match the control (EPA) reducing error to within acceptable margins.
- Visualized the data and allowed users to query for local information.

PROJECTS

CABINET

- A file system utility, built with Python, designed to allow users to quickly sort messy directories or manage files.
- Included CLI with various options/arguments to offer additional flexibility.

MTG ARCHETYPE ANALYSIS

- Developed a Scrapy spider and scheduled a cron job to routinely scrape domains and update data on the meta.
- Web app built using Django which handled data from the spider and users.
- Built backend for data representation, analysis, and comparison.
- Used D3 to visualize percentage distributions for specific queries.

AIR QUALITY WEB APPLICATION

- Oversaw data analysis, framework, and integration of back-end with front-end.
- Wrote programs to pre-process air quality data from EPA CSV files.
- Developed the appropriate Django models and forms to administer survey.
- Stored responses in a database for future investigation.