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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: 3.607

LINKS

Github://c2tonyc2 LinkedIn://c2tonyc2

COURSEWORK

Discrete Math and Probability Theory Machine Structures Information Systems and Devices Artificial Intelligence Productive Use of the Unix Environment Databases Systems Internet Architecture and Protocols Algorithms and Intractable Problems

STUDENT & LAB ASSISTANT

Structure and Interpretation of Programs Data Structures

SKILLS

PROGRAMMING

Experienced:

Python • Django • Unix

Proficient:

Java • JavaScript • CSS

HTML • PostgreSQL

Familiar:

C • C++ • Ruby on Rails

SOFTWARE

Experienced:

Openstack • Docker • Git

Proficient:

Ansible • libvirt

AWARDS

Regents' and Chancellor's Scholar Rose Hills Foundation Scholar Bronze Excellence Award (EMC)

CERTIFICATIONS

Cloud Infrastructure and Services

EXPERIENCE

EMC | Software Engineering Intern (Neutrino Engineering)

May 2016 - August 2016 | San Francisco, CA

- Scripted networking procedure behind expanding/changing floating IP blocks; also added rigorous error catching, logging, metadata backups, along with automatic usage case detection for a simple and scalable user experience.
- Improved automated testing suite with additional verification jobs in Jenkins.
- Integrated and debugged an object storage component for the cloud platform.
- Refactored Django Middleware in the platform to catch misformatted requests.
- Collaborated on proof of concept for Octavia integration, a VIP feature for future versions. Octavia provides Load Balancing as a service (LBaaS) for TLS support, L7 switching, fault tolerance, massive scalability, and high availability.

BERKELEYTIME | Backend Software Engineer

May 2016 - Present | Associated Students of the University of California

- Maintained an online student resource with over 150,000 unique visits/year.
- Building scheduler application to replace current class enrollment procedures.

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 | University of California, Berkeley

- 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 guery for local information.

PROJECTS

MTG ARCHETYPE ANALYSIS

- Developed a Scrapy spider and scheduled a cron job to routinely deploy the spider, scrape MtG tournament tracking domains, and update data on the meta.
- Web app built using Diango which handled data from the spider and users.
- Used D3 to visualize percentage distributions for each query to a certain card.

OPTICAL CHARACTER RECOGNITION WITH TENSORFLOW

- Implemented perceptron algorithm and gradient descent used for training.
- Designed features and trained a convolutional neural net to self-learn features.
- Tuning hyperparameters for optimal learning rate, momentum, and batch size.
- Testing classifiers on a set of handwritten digit images with 88% accuracy so far.