

Derek Dang

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Education

University of San Francisco

B.S in Computer Science, Minor in Mathematics, Cum Laude

San Francisco, CA

Graduated May 2018

Professional Experience

LitePoint

Lead Software Engineer

Sunnyvale, CA

July 2019 – Present

- Leading a team with a focus on testing and tooling.
- Creating code analysis applications to detect halts, crashes, and possible security vulnerabilities.

Software Engineer

Dec 2018 – July 2019

- Designed a pipeline system to distribute national software releases 235% faster.
- Restructured a tech stack to automate an entire branch of testing for the QA team, quadrupling efficiency.
- Developed a multitude of tools for stats, diagnostics, triggers, and log analyses.

Twitter

Senior Capstone Internship

San Francisco, CA

Jan 2018 – May 2018

- Managed a team of 5 to create a supervised classifier for malicious and benign websites on a dataset of over 1800 anonymous websites.
- Implemented extreme gradient boosting with a Raspberry Pi Cluster (rpicluster) to efficiently generate an automatic and scalable classifier.

University of San Francisco

Computer Science Tutor

San Francisco, CA

Aug 2015 – May 2018

- Held weekly hours to guide students from Introductory Programming classes to Operating Systems on homework, projects, and labs. Debugged thousands of lines of code from hundreds of students.
- Maintained a set schedule with 7 other tutors to regulate help all day from Monday to Friday.

Projects

Dropbot

github.com/tmbernardo/dropbot

Messenger Bot

June 2018 – Present

Python, Flask, Gunicorn, PostgreSQL, SQLAlchemy, Psycpg2, Heroku, Facebook Messenger API

- A subscription-based Facebook messenger bot hosted on Heroku featuring a database of products populated by a web monitor.
- Key design differences from other messenger bots include efficient database queries, asynchronous background services, and a responsive chat-based user interface.

rpicluster

github.com/rpicluster/rpicluster-stretch

Raspberry Pi Cluster

June 2017 – May 2018

Python, Shell Scripting, Raspbian OS, Fabric, zerorpc

- A distro for a cluster of Raspberry Pis. rpicluster makes it easy to create a cluster of Raspberry Pis.
- Downloadable images come with a set of tools to aid setup, configuration, and updates.
- Visit <http://rpicluster.com/> for more details.

xv6-docker

github.com/dqdang/xv6-docker

Containers in xv6

Nov 2017 – Dec 2018

C, Unix, Docker, QEMU, Valgrind

- A container system integrated into MIT's OS xv6.
- The application allows users to create containers running on virtual consoles, framing environments for various technologies.