

NATHAN PHAM

portfolio www.phamcs.com

San Francisco Bay Area, CA
phamcse@gmail.com | (510) 508-2054
github.com/trpham | linkedin.com/in/phamcse

EDUCATION

University of California, Berkeley

Aug 2015 — Dec 2017

— B.S. Electrical Engineering and Computer Sciences

Activities Undergraduate Research Apprentice, LeaderShape Alumnus, Lab Assistant, Scholar (SanDisk, V247 Telecom, APIASF)

Courses Artificial Intelligence, Data Structures/Algorithms, Discrete Math/Probability, Software Engineering, Machine Architecture, Databases, Digital Devices and Systems, Operating Systems, Web Design

Laney College

Jan 2012 — May 2015

— A.S. Mathematics | A.S. General Science

SKILLS AND LANGUAGES

Languages Proficient (Java, Python), Intermediate (C, Objective-C, JavaScript, Ruby, HTML/CSS/jQuery), Familiar (Swift, LaTeX, MIPS, C++, SQL, Bash)

Frameworks Ruby on Rails, NodeJS, NumPy, React, Torq, Bootstraps, QUnit, JUnit, Cucumber, Selenium, Cordova

Services/Tools Git, Heroku, Pivotal Tracker, CodeClimate, Travis CI, Docker, Trello, Vim, Azure, iPython, Xcode, Android Studio

Others Graphic Design - behance.net/phamcse, Photography, Video Editing, Audio Mixing, Billigual (English, Vietnamese)

EXPERIENCE

Adobe

San Francisco, CA
Jun 2017 - Aug 2017

Software Engineer Intern

- Developed **ToDoMVC** app using Adobe framework **Torq**. It's featured on the **Torq** documentation website as a starter step-by-step tutorial to help developers learn the framework's specific syntax and components.
- Developed iOS image search app called **Adobe Stock Search** using **Adobe Creative SDK**, **Stock SDK** and **Adobe Spectrum** components.

Berkeley Institute for Data Science

Berkeley, CA
Sep 2016 - Present

Research Assistant

- Developed the Python 2D plotting library **Matplotlib** - matplotlib.org, which produces quality figures such as plots, histograms, bar charts and scatterplots in interactive environments across platforms.
- Implemented the new Vega10 color schema, fixed bugs, improved docs and the overall package.
- Develops features for **Cesium Web Frontend** - a web platform for machine learning time-series library Cesium that let non-expert users upload data, extract features, fit models and generate predictions.

Rakuten

San Mateo, CA
May 2016 - Aug 2016

Software Engineer Intern

- Worked on the **Mobile Ecosystem Team** in research, design and test the **Content Delivery Platform** - a system that helps mobile developers to deploy mobile app updates directly to their users' devices.
- Set up a demo Cordova application with embedded Microsoft Code Push service.
- Built an integration testing workflow for web applications using WebDriverIO, Mocha and Chai.

Laney College

Oakland, CA
Aug 2013 - May 2015

Math Tutor | Teaching Assistant

- Tutored math for 40+ students in lectures, one-to-one or group tutoring, and lab assignments
- Helped instructor manage lectures, explained concepts and guided students during class activities

PROJECTS

Lenbo - devpost.com/software/lenbo - React, Firebase

- Built a React web application, which is a marketplace that lets people lend and borrow items with ease.

Wall of Founders - github.com/trpham/sef-founderwall - Ruby, Rails, HTML, CSS, jQuery

- Built a Rails web application for Sankara Eye Foundation that helped its donors to review, edit and share their dedications.
- Developed donor management system, consent collection form, searching/sorting data, social media sharing and an engaging UI.

Pintos

- Implemented operating concepts of kernel threads, loading/running user programs and file system in the educational OS Pintos.
- Designs priority scheduling of thread algorithm, common syscalls, and a distributed key-value store.

VR Café - eaglevision.herokuapp.com - HTML, JavaScript, A-Frame, Node.js

- Built a web experimental VR Showcase Café using A-Frame.js and JavaScript, which brings VR experience to the web.
- Designed a full 3D viewing of the VR objects and scene with shape, textures and 3D rendered objects.

Gitlet - github.com/trpham/Git

- Used cryptographic hash function SHA-1, Java's serialization, I/O and Collections classes to build a mimic version of Git.
- Implemented 15+ commands that support backups of directories/files, restore backup, maintain branches and merge changes.