

Nathan T. Pham

<http://phamcs.com>

San Francisco Bay Area, CA

phamcse@gmail.com / (510) 508-2054

<http://github.com/trpham> / <http://linked.in/pham>

EDUCATION

University of California, Berkeley

— *B.S. Electrical Engineering and Computer Science*

Expected Graduation: Dec 2017

Activities: Undergraduate Research Apprentice (URAP), SanDisk Scholar, V247 Telecom Scholar, **Registria**, Mountain View, CA — *Externship 2016*, **VMware**, Palo Alto, CA — *Externship 2016*

Laney College, Oakland, CA

— *A.S. Mathematics | A.S. Computer Science*

Department GPA: 4.0 / Jan 2012 - May 2015

Activities: Laney Coding Club, Math Tutor, AMATYC Contestant, APIASF Scholar

EXPERIENCE

Berkeley Institute for Data Science (BIDS), UC Berkeley

— *Research Assistant / Software Developer*

09/2016 — PRESENT

- Works with the BIDS Machine Shop team to develop the Python 2D plotting library Matplotlib (<http://matplotlib.org/>), which produces publication quality figures in different formats and interactive environments across platforms.
- Implements new algorithms, fixes bugs and enhances the overall package.

Sankara Eye Foundation, Milpitas, CA — *Software Engineer*

09/2016 — PRESENT

- Develops a visual experience for donors in SEF's current SaaS web app which receives 1+ million donation every year.
- Develops Wall of Founders, Donor Management System and SEF social channel.
- Provides highly engaging UI solution.

Rakuten USA, San Mateo, CA — *Software Engineer Intern*

05/2016 — 09/2016

- Worked with the Mobile Ecosystem Team to develop the Content Delivery Platform, which helps mobile developers to quickly update app content.
- Developed a prototype Cordova app with embedded Microsoft Code Push.
- Set up an integration testing workflow with WebDriverIO, Mocha and Chai.
- Wrote CI bash script for integration with Microsoft Azure's services.
- Developed a mock-up version of Super Point Screen, with options to toggle between slider-view vs grid-view, implement lazy-loading and infinite-scrolling.

EECS Department, UC Berkeley, CA — *Computer Lab Assistant*

08/2015 — 12/2015

- Assisted 30+ students through labs and assignments in CS61A - Structure and Interpretation of Computer Science.
- Debug, answer questions, and explain Unix commands and concepts in Python and Scheme to ensure maximum learning.

Laney College, Oakland, CA — *Math Tutor / TA*

08/2013 — 05/2015

- Tutored math for 40+ students in lectures, one-to-one and group tutoring.
- Helped instructors manage lectures and explained in-class problem sets.
- Explained concepts, guided students through online lab assignments.

SKILLS

Programming: Proficient (Java, Python), Intermediate (C, Ruby, Ruby on Rails, HTML, CSS, jQuery), Familiar (Assembly (MIPS), C++, JavaScript, AngularJS, Node.js, Swift, Android, SQL, Scheme, Shell/Bash, NumPy, Selenium, QUnit, Cucumber, Cordova)

Applications: Git, Vim, LaTeX, Azure, Xcode, iPython, Android Studio, MARS, Visual Studio

Operating Systems: Mac OS, Unix and Windows

Others: Circuit Designing / Analog Electronics, Graphic Design (<http://be.net/phamcse>), Video Editing, Sound Mixing (<http://bit.do/npham>), Bilingual (English, Vietnamese)

PROJECTS

VR Café: Built a web experimental VR Showcase Café using A-Frame.js which brings VR experience to the web. Using Google Cardboard, it allows full 3D viewing of the VR objects and scene. Won Tech Award at RAK-athon 2016. *HTML, CSS, JavaScript, A-Frame, Node.js.*
<https://eaglevision.herokuapp.com>

Semi-Auto Car: Implemented data processing, integration and control for this semi-autonomous SIXT33N robot being controlled by voice commands: Record sample voice commands, examine envelop of different commands, check accuracy, develop PCA classifier, control speed and direction using PCA projection. *Python, C, Arduino IDE*

Gitlet: Built the version control system that mimicked features of Git. Support backups of files, restore backup, view history, branching and merge changes. Implemented hashing with SHA-1, reading and writing objects using Java's serialization and I/O class. 15+ commands implemented including: init, commit, add, checkout, branch, merge, push. *Java.* <https://git.io/viQmo>

Gratitude Journal: Developed a Rails web application where users can post their daily gratitude publicly or privately to support their friends and live happier. *Ruby, Bootstrap, jQuery, Ruby on Rails*

VOLLUNTEERING

St. Anthony - Mary Help of Christians Parish, CA

— Technical Support | 01/2011 — PRESENT

Provides hardware/software assistant for setting up and trouble-shooting computer, electronic devices and network at church's events. Monitors sound system and projectors during weekly mass service