Nathan T. Pham

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http://github.com/trpham / http://lnked.in/pham
http://phamcs.com

EDUCATION

University of California, Berkeley
— *B.S. Electrical Engineering and Computer Science*

Expected Graduation: Dec 2017

Activities: Undergraduate Research Apprentice (URAP), Virtual Reality @ Berkeley Developer, SanDisk Scholar, V247 Telecom Scholar

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.
- 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.

VMware, Palo Alto, CA — *Externship 2016*
Registria, Mountain View, CA — *Externship 2016*

EECS Department, UC Berkeley, CA — *Academic Intern*

08/2015 — 12/2015
- Assisted 30+ students through labs and assignments in CS61A - a course on 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, C++, Assembly (MIPS), Ruby, HTML, CSS, JavaScript, Ruby on Rails, jQuery, AngularJS, Node.js), Familiar (Swift, Android, SQL, Scheme, Shell/Bash, NumPy, Selenium, QUnit, Cucumber, Cordova)

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

Augmented Textbooks: Works with the team at VR @ Berkeley to develop this AR app, which allows users to use mobile phone to bring diagrams to life. Using Google Cardboard, it allows full stereoscopic viewing of the diagram that virtually jumps out of the page. *Unity, Maya, Vuforia.*

VR Café: Built a web experimental VR Showcase Café using A-Frame.js which brings VR experience to the web. *HTML, CSS, JavaScript, Node.js. https://eaglevision.herokuapp.com/*

Semi-Auto Car: Implemented data processing and integration for this semi-autonomous car being controlled by voice commands. *Python, C.*

Gitlet: Developed this version control system that mimicked most of Git's local methods and features through implementation knowledge of ADT's, file reading/writing. *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.*

VOLUNTEER

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.