# TAMMY D. NGUYEN

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## EXPERIENCE

**Software Engineering Intern** | June 2017 – August 2017
*Cisco Meraki,* San Francisco, CA
- Full-stack web development on Meraki's Dashboard application.
- Integrated macOS app installation with Apple MDM into Meraki Systems Manager.
- Simplified frontend logic and UI for adding managed apps using React/Redux.

**Undergraduate Student Instructor** | June 2015 – present
*UC Berkeley EECS Department*, Berkeley, CA
- 61A: Teach intro CS topics (recursion, abstraction, etc.) in Python, Scheme, and SQLite.
- 61B: Teach intermediate CS topics (OOP, data structures, algorithms) in Java.
- 186: Teach database topics (SQL, query optimization, joins, transactions, etc.) in Java.
- Develop, revise, and grade lab assignments, discussion handouts, and exam questions.
- Mentored a cohort of students from underrepresented backgrounds through CS Scholars.

**Software Developer** | June 2016 – December 2016
*UC Berkeley Student Affairs – Information Technology*, Berkeley, CA
- Develop and maintain web applications using the Django framework to support SAIT staff.
- Planned, designed, and developed a web application to generate Helpdesk shift schedules for customer support staff using the Munkres matching algorithm.

## EDUCATION

**University of California, Berkeley** | August 2014 – May 2018 (expected)
*B.A. Computer Science (3.86 GPA)*
- **Awards:** Dean's Honors (Spring 2016)
- **Relevant courses (**in progress*):**

| | | |
|---|---|---|
| Computer Architecture | Artificial Intelligence | Efficient Algorithms and Intractable Problems |
| Data Structures | User Interfaces | Introduction to Database Systems |
| Operating Systems | Computer Security | *Internet Architecture and Protocols* |

## PROJECTS

**CS61A Resources Website** | June 2015 – December 2016
***view:*** *tmmydngyn.com/cs61a,* ***source:*** *github.com/tmmydngyn/cs61a-resources*
Create and organize discussion material, concept guides, and practice-problems for CS 61A in a user-friendly static site that maximizes learning efficiency for students.

**IOT Food Tracking Application** | August-December 2016
*UC Berkeley, CS 160 (User Interfaces and Design)*
Designed and implemented an IOT application for tracking food lists and recipes in a team of five. Design process included interviewing, prototyping, user testing, and other UX practices. App was implemented in KimonaJS, a Javascript framework for embedded systems.

**Gitlet (Java)** | April 2015
*UC Berkeley, CS 61B (Data Structures)*
Designed and developed from scratch a small-scale version control system based on Git that saves/restores files and manipulates branches via the command line. Tested with JUnit.

## TECHNICAL SKILLS

Proficient/*Familiar*

*Languages:* Python, Java, HTML, Javascript, *C, SQLite, Scheme, CSS.*
*Frameworks:* React JS, *Redux JS, Ruby on Rails, Django*
*Other:* UNIX, Git, Photoshop