

# TAMMY D. NGUYEN

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## EXPERIENCE Undergraduate Student Instructor | June 2015 – present

*UC Berkeley EECS Department, Berkeley, CA*

- 61A: Teach introductory CS topics (recursion, abstraction, etc.) in Python, Scheme, and SQLite.
- 61B: Teach intermediate CS topics (OOP, data structures, algorithms) in Java.
- Develop, revise, and grade lab assignments, discussion handouts, and exam questions.
- Mentor a special 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 front-line customer support staff using the Munkres matching algorithm.

## Residence Hall Math Tutor | August 2015 – December 2015

*UC Berkeley Residential & Student Service Programs, Berkeley, CA*

- Conducted tutoring sessions for undergraduate math classes at residence hall academic centers.
- Instilled practical and efficient studying and learning techniques in students.

## 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	Efficient Algorithms and Intractable Problems	Artificial Intelligence
Data Structures	Introduction to Database Systems	User Interfaces
Operating Systems	Computer Security	

## PROJECTS CS61A Resources Website | August 2015-ongoing

*view: [tmmydngyn.com/cs61a-resources](https://tmmydngyn.com/cs61a-resources), source: [github.com/tmmydngyn/cs61a-resources](https://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.

## MIPS CPU (C, MIPS, Logism) | October-November 2015

*UC Berkeley, CS 61c (Machine Structures)*

Built a two-pass assembler for a subset of the 32-bit MIPS instruction set and the corresponding processor circuit that can perform simple operations and read from/write to memory.

## 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.

## Web Development Side Projects

*source: [github.com/tmmydngyn](https://github.com/tmmydngyn)*

I enjoy learning about various web development frameworks in my free time. Some small projects include include a Secret Santa generator in Flask and a random font generator in MeteorJS.

## TECHNICAL SKILLS

Proficient/Familiar

*Languages:* Python, Java, HTML, Javascript, SQLite, Scheme, CSS, C.

*Frameworks:* Django, Flask, MeteorJS.

*Other:* UNIX, Git, Photoshop.