

TAMMY D. NGUYEN

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EXPERIENCE **Software Developer** | June 2016 – present

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 algorithm.

CS 61A Undergraduate Student Instructor | June 2015 – present

UC Berkeley EECS Department, Berkeley, CA

- Teach computer science topics (recursion, abstraction, etc.) in Python, Scheme, and SQLite.
- Develop, revise, and grade lab assignments, discussion handouts, and exam questions.
- Mentor a special cohort of students from underrepresented backgrounds through CS Scholars.
- Wrote Python scripts to generate grading files for assignments, parse scores, and upload grades.

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):**

Machine Structures	Efficient Algorithms and Intractable Problems	<i>Artificial Intelligence*</i>
Data Structures	Introduction to Database Systems	<i>User Interfaces*</i>

PROJECTS **CS61A Resources Website** | August 2015-ongoing

view: tmmydngyn.com/cs61a-resources, source: github.com/tmmydngyn/cs61a-resources

Create and organize discussion material, concept guides, and practice-problems for CS61A 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.

Web Development Side Projects

source: 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.