

# Zhuo Lu

## WORKS & EXPERIENCES

**Teaching Assistant** August 2017 –Now  
Web Design DeCal

- Maintain and update the course portal implemented in Django.
- Winter 2017, added a real time Q&A queue to be used in lecture.
- Summer 2017, updated course info website and a project showcase site displaying works done by previous students.

**Research Assistant** February 2017–May 2017  
Berkeley Center for New Media

- Teamed with PhD candidate Juliana Friend from the Department of Anthropology to design and develop the Many-to-Many project website (<https://many-to-many.net>), offering an online platform to facilitate ethnographic research.
- Designed and implemented a multilingual CMS with content versioning, a custom front-end MVP, and a RESTful server with LAMP for data query and mutation.

**Student Ambassador for the Arts** September 2016–Now  
Cal Performances

- Committee Manager for "Students' Night Out" since September 2017.
- Hold post-performance reception events such as "SpeakEasies" for audience to mingle and to share thoughts about the show.
- Promote Cal Performances events through physical presence or social media on platforms like Facebook, Twitter and Instagram.

**Volunteer for International Programs** October 2016–Now  
Berkeley International Office

- Assisted social event programming such as the monthly "iMixes," as a space for students to mix and mingle. In 2016, teamed with other volunteers and created a pumpkin carving contest.
- Helped migrate Berkeley International Office website to the new Open Berkeley platform based on Drupal.
- Designed logo and banner for the Resilience project.

**Academic Intern** January 2017–May 2017  
COMPSCI 61A: Structure of Interpretation of Computer Programs

- Held weekly office hours to help students, who took COMPSCI 61A in Spring 2017, better understand the course materials.

**Freelancing Programmer** June 2015–May 2017  
Alga (Far East)

- Communicated with client to deliver solutions for statistical analysis. Developed VBA Macro in Microsoft Excel.

**Web Developer Intern** July 2015  
Dulwich College Management International

- Full-stack developer on website for Dulwich Science Art Photography Competition (<http://dulwichphotos.com>), annually held across 7 campuses. Back end implemented with LAMP.
- Created interactive gallery of photos from past and current events.
- Communicated with the marketing department to deliver feasible web solutions for photo submission.

## CONTACT

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## EDUCATION

**University of California, Berkeley**

Expected graduation date: May 2020  
B.A. Computer Science  
College of Letters & Science

## SKILLS

### Programming

Proficient in Python, JavaScript, PHP, HTML, CSS, SQL, VBA; intermediate in Java, C, C++, Scheme.

Familiar with Git, JetBrains IDEs, package management tools like npm and build tools like Gulp.

### Creative Tools

Adobe Photoshop, Illustrator, InDesign, Premiere, After Effects; Blender; Final Cut Pro X

## PROJECTS

- Maintainer for the open source Electron project by GitHub.
- Codesigning tool for macOS distribution of apps created with GitHub Electron. Implemented with Node, distributed through npm.
- Interactive paper engineering for pop-up books and cards. Derived interpolation algorithm for motion of gullies through paper folding. Implemented with WebGL in JavaScript (THREE.js).
- Interactive terrain painting with polygonal mesh extraction by marching cube algorithm. Implemented with OpenGL in GLSL and C++.
- Web-based collaborative drawing app for entertainment, distributed on the Mac App Store. Implemented with GitHub Electron and Node in JavaScript, PHP, HTML and CSS.