

Garrick Fernandez

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EDUCATION

Stanford University, Stanford, CA *Sept. 2015 – present*

B.S. in Computer Science, expected June 2019

- **Focus:** Human-Computer Interaction
- **Coursework:** Intensive freshman arts program, object-oriented systems design and Android (CS108), web applications (CS142), visual thinking (ME101), design and manufacturing (ME203)

EXPERIENCE

Department of Computer Science, Stanford, CA *Jan. 2017 – present*

CS198 Section Leader

- Teach weekly sections of 10–18 students in introductory computer science courses covering Java, JavaScript, and C++; mentor students one-on-one, hold office hours, and grade exams
- Trained small group of new section leaders as a senior section leading project; also volunteered to hold review sessions, facilitate online help hours, and help pilot a new course in JavaScript

Department of Communication, Stanford, CA *Jan. 2018 – present*

Research Assistant

- Build Facebook Messenger chatbot using Python and Flask to investigate gender dynamics in human-computer interaction, deploying to Heroku and documenting app for future researchers
- Make command-line tool to help researchers quickly pull information from a database of responses

Cantor Arts Center, Stanford, CA *June 2017 – Dec. 2017*

Exhibitions Intern

- Digitally modelled several galleries over multiple revisions and oversaw planning and construction of four new exhibitions, including travelling monographic exhibition, over 10-week summer program
- Introduced and standardized new templates for gallery plans and maps using SketchUp to improve communication with artists, designers, curators, and preparators; now in use across museum

Freelance Graphic Designer *May 2015 – present*

- Contract with student groups to design new advertising material, increasing student interest with posters, logos, websites, and social media accounts; case studies and links available on personal site

PROJECTS

Song N-Grams *June 2017*

- Wrote Python script that generates frequency tables of words in song lyrics and uses Markov model to fashion new songs; used to ideate song lyrics for band

sloco.stanford.edu *Sept. 2016 – Feb. 2017*

- Designed and programmed PHP website for Stanford Light Opera Company, leveraging HTML and CSS animation using GreenSock Animation Platform (GSAP)

Ray-Traced Image (CS148) *Dec. 2017*

- Artistic final project for CS148: Computer Graphics. Created homage to Holbein's *The Ambassadors*. Implemented depth-of-field visual effect in C++ and multi-threading for 40% faster render times

SKILLS AND ACCOMPLISHMENTS

- **Academic Distinctions:** Filipino Americans in Silicon Valley Tech Conference (FASTERCON) attendant (2017), Out for Undergrad (o4U) Tech Conference attendant (2017), Geballe Prize for Writing (2017), National Merit Scholarship recipient (2015), IHSTF All-State Company Member (2015)
- **Programming Languages:** Java, Python, HTML/CSS/Sass, C++, C, PHP, JavaScript/JQuery
- **Tools and Frameworks:** Android Studio, MEAN Stack, Git, Adobe Creative Suite, Django, SketchUp
- **Interests:** Visual art, information visualization, ukulele and guitar, student theatre/improv, baking