

EDUCATION

- **University of California, Berkeley**
Master of Science in Electrical Engineering and Computer Sciences *Expected May 2019*
- **University of California, Berkeley**
B.A. in Computer Science; B.A. in Applied Mathematics; GPA: 3.97; Summa Cum Laude *2017*

EMPLOYMENT

- **eBay Inc.** San Jose, CA
Site Reliability Engineer - Software Engineer *Dec 2017 - Aug 2018*
 - **Slackbot**: Developed a slack app to monitor eBay infrastructure health and automatically triage usual site issues.
 - **Machine Learning**: Developed a neural network to predict future eBay infrastructure utilization rate based on past CPU and JVM memory usage.
 - **Signal Correlator**: Developed a framework to detect strong correlation between many different signals during eBay site incidents, cutting manual checking and reducing eBay site down time.
- **Visual Computing Lab at University of California, Berkeley** Berkeley, CA
Researcher *Sep 2016 - Present*
 - **Graphics**: Developed an eyeglasses-free display to accommodate for people with visual aberrations; the displayed image would be computationally generated so that it appears in focus to the viewer.
 - **Simulation**: Simulated the effects of diffraction of the pinhole mask of the vision-correcting display; compared the performance of the ray optics and wave optics model in determining image quality.
- **Mathematics Department at University of California, Berkeley** Berkeley, CA
Graduate Student Instructor *Aug 2018 - Present*
 - **Teaching**: Teach Biweekly discussion sections to a group of 60 students on linear algebra, calculus and statistics; hold two office hours weekly and conduct review sections.
 - **Evaluation**: Write weekly quizzes and worksheets including solutions; Grade and proctor quizzes, exams and homework.
- **Computer Science Department at University of California, Berkeley** Berkeley, CA
Lab Assistant and Tutor *Aug 2016 - Dec 2017*
 - **Lab Assisting**: Taught weekly lab sections, supervising more than 40 students.
 - **Tutoring**: Taught Java, Python, and matlab; Graded and proctored exams, and finals.
- **Student Learning Center at City College of San Francisco** San Francisco, CA
Tutor *Jan 2016 - Aug 2015*
 - **Calculus and Chemistry**: Tutored calculus and organic chemistry concepts to college students.

PROJECTS

- **Vision Correcting Display(Ongoing since 2016)**: Developed display for people with myopia and hyperopia; Used OpenCV for eyetracking and OpenCL for simulation. For more info, please visit my website.
- **Raytracer**: Distributed raytracing on obj file inputs, with acceleration data structures for image rendering.
- **Gradient Domain Blending**: Developed an application to blend image smoothly using least squares solution.
- **Bear Map**: Built a mapping application with auto-completion, routing and location search functionality.

HONORS AND AWARDS

- **Summa Cum Laude**: Awarded to Top 2% of the 7500 students at 2017 graduation.
- **Eugene L. Lawler Prize**: Awarded to UC Berkeley computer science department commencement.
- **UC Berkeley EECS Honors Program**: Selective program for academically outstanding students for research.
- **Dean's List**: Awarded to top 4% of students at UC Berkeley.
- **AMATYC national math contest prizes**: First prizes at City College of San Francisco from 2013 to 2015.

SKILLS

- **Language**: Python, Java, Latex, C/C++, SQL, Matlab, Linux, HTML, CSS, JavaScript
- **Framework and Technology**: Numpy, Git, Tensorflow, Docker, Java EE, Spring Boot