SUN AH LEE

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education

○ **UNIVERSITY OF CALIFORNIA, BERKELEY |** *class of 2021*　　　　*Aug 2017 - present ● Berkeley*
Data Science, Computer Science ● GPA: 3.41
Relevant coursework: Algorithms, Nonlinear and Discrete Optimization*, AI, Programming Fundamentals, Data Structures, Computer Architecture, Discrete Math, Probability for Data Science*, Linear Algebra, Human-Centered Design
in progress

○ **IRVINE HIGH SCHOOL (CA) |** *class of 2017*　　　　*Sept 2013 - June 2017 ● Irvine*
Honors Roll ● Weighted GPA: 4.2

projects

○ **HOMEBUDDY: FULL-STACK WEB APP (REACT, NODE.JS, FIREBASE)**　　*Feb 2019 - present ● Berkeley*
　○ With a 4-person team, build an app that pairs users with "home buddies" to walk home safely from campus
　○ On the front end team, develop the client-facing side using React, Google Maps API and HTML/CSS
　○ Create sign-up/sign-in functionality, fine-tune the buddy matching algorithm and design user-friendly interface

○ **SHAPE FROM STEREO (C, SIMD, OPENMP)**　　*Sept - Oct 2018 ● Berkeley*
　○ Created a program that simulates depth perception by generating a depth map from stereo images
　○ Optimized performance and increased speedup by 6x using parallelism techniques

○ **BERKELEYPROJECT.ORG (PYTHON, HTML/CSS, JS)**　　*Sept 2018 - present ● Berkeley*
　○ Re-design and maintain website of UC Berkeley's largest student-run volunteer organization to improve user experience
　○ Develop a portal application for prospective committee members to streamline club application process

○ **BEARMAPS (JAVA, INTELLIJ)**　　*April 2018 ● Berkeley*
　○ Programmed a web-mapping application that outputs shortest path distances within Berkeley area
　○ Implemented rastering for correct tile selection and A* algorithm to generate shortest distance between two locations

experience

○ **BERKELEY CODEOLOGY**　　*Jan 2019 - present ● Berkeley*
Club Project Leader
　○ Lead a 4-week project for club members to learn how to build an online personal portfolio
　○ Designed lesson plans on relevant UI/UX topics and web development technologies, such as JS and HTML/CSS
　○ Work one-on-one with group of 6 students and receive mentorship from project managers to improve teaching process

○ **UC BERKELEY EECS DEPARTMENT**　　*Aug 2018 - present ● Berkeley*
Academic Intern for CS 70
　○ Assist students at office hours 3+ hours a week for discrete math and probability class with 800+ students
　○ Aim to help students think critically about content and assigned problem sets

○ **COMPUTER SCIENCE MENTORS (CSM)**　　*Jan 2019 - present ● Berkeley*
Junior Mentor for CS 70
　○ Teach 1-hour long sessions twice a week to group of 4 students
　○ Reinforce content with the use of mini lectures and problem-based worksheets
　○ Help students strengthen foundations to better approach more difficult concepts and problems

○ **THE DAILY CALIFORNIAN**　　*Aug 2017 - May 2018 ● Berkeley*
Layout Designer
　○ Served daily student-run newspaper with readership of 35,000+ students, faculty and residents
　○ Layouted text and imagery on pages and collaborated on monthly creative spreads using Adobe InDesign, Ps, Ai

skills

○ **LANGUAGES |** Python, Java, C, HTML/CSS, JavaScript
LIBRARIES & PROGRAMS | React, numpy, matplotlib, SQL, pandas, Tableau ● Adobe Creative Suite (Ps, Ai, Id, XD)

○ **INTERESTS |** Front-end development, web applications, CS theory, teaching, UI/UX, photography