

# Annie Yichen Ke

annie.ke@dali.dartmouth.edu | 408.480.5021  
HB 2284 Dartmouth College, Hanover NH 03755

## EDUCATION

### DARTMOUTH COLLEGE

BA IN COMPUTER SCIENCE &  
MATHEMATICS

Expected Grad. 2019 | Hanover, NH

GPA: 3.94 / 4.0

Activities – Kappa Delta Epsilon (Summer Treasurer), Dartmouth Symphony Orchestra, Women in Science Program

### PIEDMONT HILLS HIGH

CLASS VALEDICTORIAN

Grad. May 2015 | San Jose, CA

SAT: 2390

## COURSEWORK

### UNDERGRADUATE

- Algorithms
- Full-Stack Web Development
- Software Design & Implementation
- Object Oriented Programming
- Human-Computer Interaction
- Discrete Math
- Linear Algebra
- Probability
- Abstract Algebra
- Combinatorics
- Multivariable Calculus
- Design Thinking

## TECHNICAL SKILLS

### LANGUAGES

- Python
- Java
- C
- JavaScript
- R

### TOOLS & FRAMEWORKS

- React
- Redux
- jQuery
- Django
- Node.js
- Firebase
- MongoDB
- Sass
- Unity
- $\text{\LaTeX}$

## LINKS

Github:// [annieke](#)

LinkedIn:// [annieke](#)

## WORK & LEADERSHIP EXPERIENCE

### YELP | INCOMING WINTER SOFTWARE ENGINEERING INTERN

Jan 2018 – Mar 2018 | San Francisco, CA

### DALI LAB | DEVELOPER, PROJECT MANAGER & CORE MEMBER

Protein Structure Builder | Sep 2016 – Mar 2017 | Hanover, NH

- Developed a protein-structure combination game in Unity (C#)
- Led a team of 5 developers & 3 designers – personally reviewed all designs & code to ensure each module integrates into final game product
- Brought project from pure concept to fully functional software in 2 quarters

Roden Health | Mar 2017 – Jun 2017 | Hanover, NH

- Developed a web client on React for healthcare providers to view patients' facial analysis data from self-shot videos
- Scripted in JavaScript to parse IBM Watson-generated emotion data
- Used React-Vis, D3, & chart.js to visualize changes in each patient's emotions over treatment periods

Core | May 2017 – Aug 2017 | Hanover, NH

- Spearheaded efforts to make lab more data-driven
- Developed an internal RESTful API on Express, which handles all lab member, project, & event data

### ROSBOTS | SOFTWARE DEVELOPMENT INTERN

Nov 2016 – Dec 2016 | Belmont, CA

- Designed & deployed **company landing page**

### DARTMOUTH CS DEPARTMENT | CS10 TEACHING ASSISTANT

Sep 2016 – Nov 2016 | Hanover, NH

- Led weekly recitation sessions for 10+ students to review object-oriented programming concepts in Java
- Graded weekly problem sets, then provided personalized feedback on logic, concepts, & programming habits

### PANLEX, LONG NOW | SOFTWARE INTERFACES INTERN

Jun 2016 – Aug 2016 | Berkeley, CA

- Developed a “Google Translate”-like **web application** for PanLex, the world's largest language database, with the PanLex API & Django

## PROJECT HIGHLIGHTS

### MAFIA

Full Stack mafia game platform built with React, Redux, socket.io, Express, & MongoDB; supports multiple multiplayer games, Facebook authentication, & chat

### FLOAT NOTES

Collaborative note-taking web app with multiple boards & real-time editing; built with React & Firebase

## AWARDS & HONORS

2017 Dartmouth College

2016 Dartmouth College Top 5%

2016 Dartmouth College

2015 Nation Top 300

Neukom Scholar

Rufus Choate Scholar

ISTS & Neukom Grant Recipient

USA Physics Olympiad Semifinalist