

# Annie Yichen Ke

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## EDUCATION

### DARTMOUTH COLLEGE

#### BA IN COMPUTER SCIENCE & MATHEMATICS

Expected Grad. 2019 | Hanover, NH

GPA: 3.93 / 4.0

Activities – Kappa Delta Epsilon (Summer Treasurer), Dartmouth Symphony Orchestra

### PIEDMONT HILLS HIGH

#### CLASS VALEDICTORIAN

Grad. May 2015 | San Jose, CA

SAT: 2390

## COURSEWORK

### UNDERGRADUATE

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

## TECHNICAL SKILLS

### LANGUAGES

- Java
- C
- JavaScript
- Python

### TOOLS & FRAMEWORKS

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

## LINKS

Github:// [annieke](#)

LinkedIn:// [annieke](#)

## WORK & LEADERSHIP EXPERIENCE

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

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

- Developed a protein-structure combination game in Unity (scripted in C#)
- Led a team of 5 developers & 3 designers – personally reviewed all designs and code to ensure each module integrates into final game product
- Brought project from pure concept to fully functional game 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
- Wrote scripts in JavaScript to parse IBM Watson-generated emotion data
- Used React-Vis, D3, & chart.js to display changes in each patient's emotions over treatment periods

Core | May 2017 – Present | Hanover, NH

- Mentoring project teams & individual lab members
- Developing an internal RESTful API on Express, which will handle all future lab member & project information

### ROSBOTS | SOFTWARE DEVELOPMENT INTERN

Nov 2016 – Dec 2016 | San Carlos, CA

- Designed & deployed company landing page at <https://www.rosbots.com/>
- Compiled instructions for installing ROS on Raspberry Pi

### 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 using PanLex, the world's largest language database, & Django
- Application deployed at <https://teradict.herokuapp.com/>

## PROJECT HIGHLIGHTS

### MAFIA

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

### FLOAT NOTES

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

## AWARDS & HONORS

2017	Dartmouth College	James O. Freedman Presidential Scholar
2017	Dartmouth College	Neukom Scholar
2016	Dartmouth College Top 5%	Rufus Choate Scholar
2016	Dartmouth College	ISTS & Neukom Grant Recipient
2015	Nation Top 300	USA Physics Olympiad Semifinalist