Annie Yichen Ke

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HB 2284 Dartmouth College, Hanover NH 03755

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
- 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 deliverable product in 2 quarters

Roden Health | Mar 2017 – Jun 2017 | Hanover, NH
- Developed a web client for healthcare providers to view patients' facial analysis data from self-shot videos
- Wrote scripts to parse IBM Watson-generated emotion detection data
- Used React, React-Vis, & various visualization frameworks 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