

KAREN FANN

SOFTWARE ENGINEER

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EXPERIENCE

2017 - Present

Response Two

Software Developer Intern

- Building cross platform desktop app using Electron that parses documents and allows instant document search

2017 - Present

Bruin Connections

Front-End Developer/Designer

- Designing and developing UI for UCLA-exclusive matchmaking application using HTML/CSS and jQuery
- Leveraging Bootstrap and media queries for responsiveness
- Integrating front-end with back-end APIs using jQuery Ajax and Handlebars semantic templating

LEADERSHIP

2017 - Present

UCLA DevX

Finance Officer

- Organize and maintain finances through budget/spending spreadsheets
- Collaborate with External chair to organize and obtain corporate sponsorship

2017 - Present

The Coding School

Programming Instructor

- Lead weekly programming class of approximately 15 students at Culver City Middle School
- Teach Unity 3D Game Development curriculum and basic programming concepts

EDUCATION

2016 - 2020

B.S. Computer Science and Engineering

University of California, Los Angeles

GPA: 3.5/4

- Introduction to Computer Science I/II (C++)
- Computer Organization (C, Linux)

PROJECTS

Bruin Navigation System

C++

- Implemented binary search trees, maps and A* algorithm to search and reconstruct optimal path between start and destination

Bugs! Simulation

C++

- Developed graphical ant simulation and programming competition platform using object-oriented programming and polymorphism

Electric Vehicle

C++, Arduino

- Built electric vehicle capable of traveling to a target point with 99.5% accuracy
- Programmed Arduino using C++ to efficiently apply acceleration and deceleration profiles to bipolar stepper motor, ESC, and RC motor

SKILLS

Languages: C++, Python, HTML, CSS, Javascript

Libraries and Frameworks: Bootstrap, jQuery, Node

Tools: Git/Github, Arduino, Xcode, macOS