

# Derek Lin

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## EDUCATION

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**University of California, Davis**  
*Bachelor of Science in Computer Science*

Davis, California  
September 2018 – June 2022

## TECHNICAL SKILLS

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**Technical Skills:** C, C++, Python, Java, Ruby, HTML, CSS, Javascript, React.js, Git, Bash, Flask, Firebase

**Relevant Coursework:** Data Structures, Algorithm Implementation and Design, Object-Oriented Programming, Artificial Intelligence, Probability and Statistical Modeling, Computer Architecture

## PROJECTS

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**PizzaButton** | *Python, AWS Lambda, Git, IoT*

- Implemented a Python implemented AWS Lambda function that triggers via an AWS IoT button click to order a pizza through the Dominoes API.

**Superchat** | *React.js, Git, Firebase*

- Used React.js and Firebase to create a chat room where users can type messages to each other on the web. Requires user authentication and bans users for violating community guidelines.

**RunnerApp - HackDavis 2021** | *React.js, Git, Flask*

- Created an app using React.js and Flask that utilizes Google Maps API to generate running routes based on difficulty and location of the user.

**Class Projects** | *C, C++, git, Command line*

- Uno** - Implemented objected-oriented programming fundamentals such as abstraction, encapsulation, polymorphism, and inheritance to create a complex, interactive Uno card game with multifaceted decks and rules.
- B-Tree insertion** - Used object-oriented programming and knowledge of data structures to implement insertion of a new value onto a node of the B-Tree data structure with proper memory allocation.
- Rent vs. Buy** - Implemented a program that calculates cost of inflation, taxes, and loans for buying a house versus renting an apartment for a set amount of years. Provides multi-year cost-benefit recommendations on whether to buy or rent a house.

## EXPERIENCE

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**Division I Cross Country and Track Athlete**

*University of California, Davis*

September 2018 – Present

*Davis, California*

- Participated in 15+ weekly hours of training, weights, and conditioning, year-round, while competing in the fall and spring seasons.

**Tofu Salesman**

*Wa Heng Dou-Fu Corporation*

October 2017 – August 2020

*Stockton, California*

- Provided customer service, calculated costs of soy products, and communicated weekly prices to customers in a fast paced environment.

## ACTIVITIES

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**Awards:** 2019 Fall Big West All-Academic, 2018 Varsity Most Valuable Runner in Track and Field, 2020 Dean's List Winter Quarter: College of Letters and Sciences

**Community Service:** Lifetime membership of the California Scholarship Federation from 2015-2018. Completed 120 hours of community service over six semesters at Land Park, McKinley Rose Garden, and Elks Lodge 6, a local retirement home for veterans