

Derek Lin

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EDUCATION

University of California, Davis
Bachelor of Science in Computer Science

Davis, California
September 2018 – June 2022

TECHNICAL SKILLS

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

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

PROJECTS

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

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

Superchat | *React.js, Git, Firebase*

- Created an app where users can type messages to each other on the web. Prompts user authentication via gmail and bans users for violating community guidelines.

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

- Created an app that utilizes Google Maps API to generate popular running routes based on difficulty and location of the user from .gpx files in the area.

Class Projects | *C, C++, Git, Linux*

- **Uno** - Implemented object-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

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

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