

Benjamin Dinh

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EDUCATION

University of California, Davis

B.S. Computer Science, Minor in Communication

Expected June 2022

Relevant Coursework: Object-Oriented Programming | Data Structures and Algorithms | Algorithm Design and Analysis | Theory of Computation | Web Programming | Probability and Statistical Modeling | Applied Data Science

WORK EXPERIENCE

UC Davis Academic Assistance and Tutoring Centers

Davis, CA

Computer Science & Mathematics Tutor

January 2020 - Present

- Assisted students taking Data Structures & Algorithms, Calculus, Linear Algebra, and Discrete Math coursework.
- Designed supplementary curriculums, managed progress reports, and communicated with students regularly.
- Transitioned to virtual tutoring appointments with Zoom video conferencing.
- Tutored 5+ students every week and increased their test scores by an average of 15%.

UC Davis Social and Political Interacting Networks Group

Davis, CA

Research Programmer

September 2020 - November 2020

- Researched the effect of shocks on social and political networks, the causes and consequences of network spillover, and methods for analyzing these networks.
- Handled edge cases, ensured efficient data management, and improved upon existing graph algorithms.
- Reduced memory stored in RAM by 50%.

PROJECTS

Tuberculosis Drug Resistance

Machine Learning Model

December 2020

- Tools: Python, Pandas, Sklearn, Tensorflow
- Built 3 machine learning models that determine thresholds for gene mutation signals.
- Looked at whether molecular probes that detect these mutations yield high or low signals.
- Decision tree model achieved the highest accuracy rate of 99% compared to neural networks & logistic regression.

AggieFeed

Android Development

July 2020

- Tools: Android Studio, Kotlin, OkHttp, GSON
- Built an Android app that accesses a REST API to render a newsfeed of 20+ events which updates every day.
- Implemented GSON data mapping and Square's HTTP client OkHttp.

UC Davis Yearbook

Full Stack Development

May 2020

- Tools: ReactJS, NodeJS, CSS, SQLite3
- Directed 2 team members to build a web app where users can log in & upload profiles onto a virtual yearbook.
- Developed wireframes and assessed the user interface for technical feasibility.
- Built a profile feed that can be filtered by college, major, name, etc.

LEADERSHIP EXPERIENCE

#include at Davis

Davis, CA

Director of Technology - Front End

May 2020 - March 2021

- Facilitated quarterly projects where teams of 25+ members design and build websites for local non-profit organizations.
- Worked alongside 4 directors to plan educational workshops, perform code reviews, redesign the club website.
- Virtually taught 100+ attendees how to build and host their own portfolio websites.
- Worked directly with clients to develop technical solutions and improve upon existing prototypes.

SKILLS

Languages: Python | HTML | CSS | JavaScript | C | C++ | C#

Frameworks & Libraries: ReactJS | NodeJS | Bootstrap | Flask

Other: Figma | Git | Google Cloud | Chrome DevTools