

# Benjamin Dinh

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## EDUCATION

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### University of California, Davis

*B.S. in Computer Science*

*Expected June 2022*

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

## WORK EXPERIENCE

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### 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

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### 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

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### #include at Davis

**Davis, CA**

*Director of Technology - Front End*

*May 2020 - Present*

- 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

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**Languages:** Python | HTML | CSS | JavaScript | C | C++ | R | SQL

**Frameworks & Libraries:** Flask | ReactJS | NodeJS | Sklearn

**Other:** Bash Scripting | Figma | Git