Benjamin Dinh

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EDUCATION

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

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%.

UC Davis Department of Plant Sciences   **Davis, CA**
Front End Development Intern   *June 2020 - September 2020*
- Wrote and styled the front-end components of a professor's lab website.
- Implemented optimal practices for website development, including mobile and responsive site design.
- Ensured proper documentation of website edits and bug fixes.

PROJECTS

Tweet Sentiment Analysis
Natural Language Processing   *November 2020*
- Tools: Python, Pandas, Sklearn, NLTK
- Developed an NLP model that labels US airline tweets based on polarity of opinion: positive, neutral, negative.
- Cleaned, normalized, and tokenized the tweets to create a term frequency-inverse document frequency matrix.
- Split the data into testing/training sets and performed logistic regression which yielded an 80% accuracy rate.

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 - 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

Languages: Python | HTML | CSS | JavaScript | C | C++ | R | SQL
Frameworks & Libraries: Flask | ReactJS | NodeJS | GatsbyJS | Bootstrap
Other: Bash Scripting | Figma | Git