

Hao Thai

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EDUCATION

B.S. Computer Science

California State University, Fullerton

Graduation Date: **May 2025**

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, Bash, Assembly, MySQL, Kotlin
- **Web Development:** HTML, CSS, Tailwind, React.js, JavaScript, jQuery, Bootstrap, WordPress, TypeScript, SQLite, Ruby on Rails, Go
- **Relevant Coursework:** Java Programming, Software Engineering Principles, Compilers, Algorithms, Data Structures, Algorithms, Artificial Intelligence, Android Development
- **Technologies:** Git, Linux, Virtual Machines, \LaTeX , Figma, SvelteKit, Pandas library, Jupyter Notebook, Slack, Supabase, PostmanAPI

WORK EXPERIENCE

CODEPATH | Tech Fellow - Technical Interview Prep

May 2024– August 2024

- Led interactive training sessions on Data Structures and Algorithms for a 10-week course, increasing student understanding and problem-solving skills among 8-12 students per session, while enhancing the learning experience, course participation, and retention rates by approximately 15% for underrepresented CS students through 2-4 hours of dedicated in-class and out-of-class mentorship and community-building efforts weekly.

CALIFORNIA STATE UNIVERSITY, FULLERTON | Research Assistant Volunteer

May 2023– June 2023

- Enhanced predictive models for market trend analysis by utilizing statistical methods, optimization techniques, and the Pandas library to analyze historical stock data, successfully improving trading decision accuracy by 20% and identifying lucrative trading opportunities through comprehensive data analysis.

PROJECTS

SMARTBASKET | Optimized a data management system using BST and associative containers in C++

View Code

- Engineer a scalable, high-performance grocery store inventory management system by integrating ordered associative containers, optimizing system efficiency and data handling.
- Optimize data processing and storage to build a modular, maintainable codebase by implementing binary search trees and key/value association data structures for superior high-performance data retrieval, storage, and management.

TEMPDASH | HTML CSS, JavaScript, React.js, Supabase

View Code

- Architected and launched TempDash, a weather forecasting application with detailed 16-day weather predictions and integrated interactive data visualizations that improved user understanding of complex meteorological data by 40% using API calls.
- Developed a unique feature enabling users to identify and compare the hottest and coldest days within the forecast period, which increased user session duration by 25% due to enhanced engagement.

SYNTAX ANALYZER | Python

View Code

- Engineered a sophisticated LR parser for efficient syntax analysis in programming languages by refining parsing logic, ensuring robust error handling and computational efficiency.

LEADERSHIP & INVOLVEMENTS

ASSOCIATION FOR COMPUTING MACHINERY (ACM) | DevTeam & OSS Member

Aug 2022 – Present

- Developed a Discord bot and a tailored API using Supabase, SQLite, and Go, enhancing user interaction by 30% and optimizing club operations by 25%, while increasing event attendance by 40% through effective API integration, precise database schemas, and real-time notifications.

SRJC WEB DEV BOOTCAMP | Full-stack Development

May 2023 – Present

- Gained proficiency in user-centered design and user experience research, optimizing projects for search engine visibility using open-source JavaScript libraries, such as jQuery to create interactive experiences.

CODEPATH | Web & Android Development

May 2023 – 2024

- Utilized front-end and backend frameworks to enhance web projects and android applications with advanced HTML, CSS, JavaScript, and React to integrate back-end data using Supabase.