Bao Chau

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Education

University of Texas at Arlington – Bachelor of Software Engineering

Expected Jun 2025

Relevant Courses: Data Structure and Algorithms, Operating System, Database System, OO Software Engineering, Software Testing

Skills

Languages: Python, Java, C++, Bash, JavaScript, HTML/CSS, SQL

Frameworks and Tools: React, Node, Express, Flask, MongoDB, Git, Firebase, Docker, Android Studio

Design and Development: REST APIs, Microservices, UML, Agile, Scrum

Interpersonal: Problem Resolution, Team Oriented, Self-Reliant, Quick Learner, Continuously learning

Projects

Student Advising System

React, Node.js, MongoDB, Express.js, JWT, bcrypt

- Designed and implemented a REST API with a controller pattern to manage scheduling, tracking and CRUD
 operations for students and advisors, writing 600+ lines of code to handle various functionalities.
- Secured authorization using JWT and bcrypt, protecting login data and tokens through HTTP-only cookies, significantly enhancing system security by adding an additional layer of protection.
- Managed React data flow to fetch and aggregate data from multiple components, enabling teammates to
 develop frontend components with fewer restriction, improving developer productivity and reduce
 integration time by 25%.

Virtual Chef

Android Studio, Flask, Python, OpenAl API, Firebase

- Led development of a Flask server that processed requests from Android Studio for managing user recipes
 and nutrition data, implementing caching for API calls that reduced response time by 50% and increased
 system request capacity.
- Optimized search functionality on Nutritionix API by implementing debounce technique to wait until user finished before making API requests, resulting in a 33% reduction in unnecessary requests and improving system responsiveness.
- Worked in an Agile environment, attending daily Scrum meetings and planning sprints, consistently delivering features on schedule.

Parking Pal (HACK UTA 2023 Winner)

C++, Node.js, Swift UI, Arduino, Python, Firebase

- Developed the backend in Node.js to handle real-time sensor readings through writing API endpoints that send sensor data to Firebase, which allow for reliable data transmission and storage.
- Collaborated on Arduino sensor setup to streamline sensor readings and data transmission, resulting in efficient real-time monitoring with consistent sub-100ms latency

Work Experience

Tutor - Houston/Arlington

Jun 2020 – Dec 2023

- Guided students in finding their own learning style and method by simplify intricate topics, provided constructive feedback, and empower students with the skills and confidence needed to excel academically
- Explained course material in a concise and easy to understand manner, focused on OOP, DSA, and Math

Assisting Accountant, Queen's Nails - Arlington Cashier/Waiter, WingsN'More - Houston

Aug 2022 – Mar 2023

Jan 2020 – June 2020