

Bao Chau

Software Engineer Intern

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Education

University of Texas at Arlington – Bachelor of Software Engineering

Expected June 2025

Relevant Courses: Data Structure and Algorithms, Fundamental of Software Engineer, Theory of Computation, Operating System, Fundamental of Database System, Object Oriented Software Engineering

Skills

Programming Languages: Python, Java, C, C++, Shell, JavaScript, HTML, CSS, SQL

Framework and Tools: React, Node.js, Express.js, Flask, MongoDB, Tailwind CSS, Github, Firebase, Postman, Axios, JWT

Design Skills: Capable of producing a Design Class Diagram for a system based on its requirements, complete with the mediation steps, including Domain Modeling, Use Cases, Actor-System Interaction and Object Interaction Modeling.

Interpersonal Skills: Problem Resolution, Communication, Research Skills, Team Oriented, Self-Reliant, Quick Learner

Projects

Student Advising System

Apr 2024

- Work in a team of 7 to build an advising appointment scheduler for UTA students and advisors. Utilized the client-server architecture with creator/controller pattern to engineer a REST API for the system, centered around scheduling, tracking, notifying and performing CRUD operation on appointments, corresponding to the user roles.
- Assisted frontend engineers in setting up the authorization process and establishing connections to the server using Axios in React. Login and authorization were secured by integrating JWT and bcrypt, with access and refresh tokens being signed and transmitted via HTTP-only cookies.
- Implemented a notification system, which is sent via mgs for any relevant changes made to students/advisors
- Utilized the Full Calendar library to create the UI for advisors, data is fetched from MongoDB and display on screen.
- Tech Stack: React, Axios, TailwindCSS, Node.js, Express.js, MongoDB, JWT

Virtual Chef

December 2023

- Work in a team of 5 to develop an app to offers a way for users to discover new recipes from items that they currently have. The app also allow user to view nutrition value of each item and manage them via CRUD operations
- Implemented auto-complete search functionality by integrating Nutritionix API into the UI via Axios, which allow the app to fetch and display the requested items.
- Utilized the client-server architecture to led the development of a Flask server. Android Studio will make request to the server, then the appropriate controller will handle the request by forwarding it to either OpenAI API or Firebase. After the operation is finish, return the corresponding status and data back to Android Studio.
- Tech Stack: Android Studio, Flask, Python, Axios, OpenAI API, Nutritionix API, Firebase

Parking Pal (HACK UTA 2023 Winner)

October 2023

- Work in a team of 5 to develop an app to offers a way to make finding parking spot faster and easier for everyone. The project utilized sensors and cloud database tracking to find available space and lot number.
- Established communication between hardware and software through a CRUD server, built using Node.js
- Work in pair to configure Arduino IoT sensors using C++ to initiate interaction between Firebase cloud database and the Node.js server.
- Tech Stack: C++, Node.js, Swift UI, Arduino, Python, Firebase, <https://devpost.com/software/parkingpal-owmukr>

Work Experiences

Tutor - Houston/Arlington

June 2020 – Aug 2023

- Proficient in tailoring teaching methods to meet individual student needs, helping learners achieve their goals.
- Explained course material in a concise and easy to understand manner, focused on OOP, DSA, and Mathematics.
- Aid students in finding their own learning style and method by simplify intricate topics, provide constructive feedback, and empower students with the skills and confidence needed to excel academically

Assisting Accountant, Queen's Nails - Arlington

Aug 2022 – Mar 2023

Cashier/Waiter, WingsN'More - Houston

Jan 2020 – June 2020