

Bao Huynh

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Education

University of California, Riverside | Marlan and Rosemary Bourns College of Engineering

Riverside, CA

Bachelor of Science in Computer Science with Business Applications

2021 – 2025

Experiences

Keynetic

April 2025 – June 2025

E-Tailer Simulation | [Website](#)

- Developed a functional front-end prototype to simulate a **B2C** e-commerce website using **React**, **Vite**, and **Next.js**.
- Built modular, responsive UI components with **JSX** and **CSS** to display products, navigation, and interactive page flows.
- Optimized routing performance using **Next.js** features such as dynamic routing, enhancing online retail experiences.
- Deployed the site to **Vercel**, enabling public access and continuous integration via Git-based deployment.

Talkify

January 2025 – March 2025

Real-Time Chat Application | [GitHub Repository](#)

- Developed a full-stack real-time chat app using **React.js**, **TypeScript**, **Vite**, **Express.js**, and **MongoDB**; integrating **RESTful APIs** with **Axios** to handle data exchanges.
- Implemented role-based authentication with **JWT** and **BCrypt**, managing token lifecycle and enhancing security by encrypting user credentials and refresh tokens.
- Developed dynamic UI components using **React Hooks** and **TailwindCSS**, reducing **DOM** re-renders by optimizing component state structure.
- Enabled live communication using **Socket.io** for instant messaging, server updates, and dynamic user presence indicators.

Full Stack Development Project

July 2024 – September 2024

Airbnb Clone | [GitHub Repository](#)

- Built a full-featured Airbnb clone with user registration, profile creation, and property listings.
- Created reusable UI components with **React** and **TailwindCSS**, leveraging conditional rendering and state-driven layouts to enable real-time updates and form validation.
- Developed backend with **Express**, **MongoDB**, and **JWT** for secure, efficient data handling and authentication.
- Integrated **Google Maps API** and optimized API requests, reducing memory use by **20%**.

Web Scraping Development Project

March 2024 – June 2024

Reddit Crawler | Academic Project

- Built a **Python** web crawler using **BeautifulSoup** and **PRAW** to extract posts from the r/ucr subreddit.
- Enhanced search speed by **90%** and relevance by **50%** through optimized indexing and query ranking.
- Created a **Flask-based** UI and integrated **PyLucene** for improved post retrieval and ranking accuracy.
- Achieved a **40%** increase in relevant search results by combining content analysis with indexing.

Front-End Development Project

October 2023 – December 2023

Movie Recommendation Engine | Academic Project

- Collaborated on a movie recommendation app that suggests titles based on users' liked/disliked movies.
- Developed unit and integration test cases to verify recommendation logic and **API** endpoints.
- Built and style key frontend components with **React**, ensuring smooth user interactions and responsive design.
- Worked closely with the backend team to define input/output contracts for recommendation algorithm integration.

Technical Skills

Programming Languages: C/C++, Python, JavaScript, TypeScript, HTML5, CSS3, XML, SQL

Frameworks & Libraries: Flask, MongoDB, Express, React, Node.js, BeautifulSoup, PRAW, PyLucene, TailwindCSS

Tools & Technologies: Git, Google Suites, RESTful APIs, MySQL, JSON, JSX, APIs, Mongoose, Docker, Postman,

Languages: English(Native), Vietnamese