Eric Eang

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EDUCATION

University of California Irvine — June 2025

Bachelor of Science, Computer Science | GPA: 3.5

Relevant Coursework: Web Applications, Database Management, Information Retrieval, User Interaction Software, Human Computer Interaction, Machine Learning, Data Mining, Operating Systems

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, C++, SQL, R, HTML, CSS
Technologies: React, React Native, Node, Express, Flask, Tailwind, Git, MySQL, MongoDB, Linux, AWS, GCP, Docker

PROJECTS

Linkbrary — March 2025
- Developed a full-stack MERN application enabling users to create tabs to organize links, improving content management efficiency
- Implemented secure session-based authentication and authorization with encrypted passwords, ensuring data privacy and personalized access
- Optimized backend performance with indexed queries and full-text search in MongoDB, enabling fast and efficient link retrieval, reducing query times
- Designed an interactive UI with React and Tailwind, integrating optimistic updates with React Query ensuring instant UI updates for an enhanced user experience.

Fabflix — February 2025
- Built a full-stack React movie browsing app with Java, Tomcat, and MySQL, implementing a multi-service architecture using Docker containers in a Kubernetes cluster on AWS, handling 100+ concurrent users
- Implemented secure session-based authentication with password encryption and reCAPTCHA validation, to reduce unauthorized access
- Optimized backend performance with stored procedures, prepared statements, and load balancing with sticky sessions, improving search speed and mitigating SQL injection risks

Sleep Tracker — March 2024
- Led a two-person team in developing a mobile sleep tracking app using React and Node, overseeing development, source control, and collaboration with Git
- Designed an interactive UI with Ionic and Bootstrap, allowing users to log sleep duration, quality, and drowsiness levels for improved sleep tracking
- Implemented Ionic Storage for efficient offline data management, ensuring fast and reliable access to sleep records, reducing load times

EXPERIENCE

Dreams for Schools, Santa Ana, CA | dreamsforschools.org — January 2024 - June 2024

Coding Instructor
- Developed and delivered an interactive curriculum alongside a co-teacher for a small class of 10 students, enhancing one-on-one instruction and boosting engagement
- Guided students in programming games, animations, and stories using Scratch, leading to a 100% project completion rate
- Resolved all tech-related issues, including connectivity problems and device errors, ensuring ideal classroom operations

LEADERSHIP & COMMUNITY INVOLVEMENT

Cambodian Awareness Organization, Irvine, CA — July 2024 - Present

Internal Relations Officer
- Established and managed a club family system, to encourage peer support, mentorship, and community bonding, leading to higher event turnout and stronger member retention