

Blake Truong

Computer Engineer

206-795-9037 | truongblake@gmail.com | Kirkland, WA | [linkedin.com/truongblake](https://www.linkedin.com/in/truongblake) | github.com/truongblake | blaketruong.com

Education

Bachelors Computer Engineering – University of Washington Bothell

June 2024

Relevant Courses

Java I & II, C++ Data Algorithms I & II, Software Engineering, Embedded Systems, Operating Systems, Technical Writing, Microprocessor System Design, Sensor Systems

Relevant Work Experience

- **Electrical Engineering Lab Technician** – University of Washington September 2022 – March 2024
 - **Mentored** students in intermediate **circuit design, analysis, testing, and debugging**, resulting in improved understanding and success in their projects.
 - **Promoted a collaborative atmosphere** by facilitating **group discussions** and **team-building activities**, fostering stronger relationships and **teamwork** among peers.
 - Demonstrated **effective communication skills** by clearly explaining **technical concepts** to peers, leading to improved understanding and **collaboration**.

Projects

- **Real-Time Chat**
 - Developed a MERN-based real-time chat app with **Socket.io** to enable instant messaging using **WebSocket** communication in an event-driven architecture.
 - Utilized **MongoDB** to persist chat history and support message continuity, with room-based messaging for enhanced user engagement.
- **Rental Movie Store**
 - Developed a **Rental Movie Store Database** using **hash tables** for customer management and **sorting algorithms** for organizing movies by genre and attributes.
 - Implemented **factory method design pattern** for creating movie objects, enhancing flexibility in managing genre-specific classes (Comedy, Drama, Classics).
 - Built functionalities including **transaction tracking, borrow/return operations, and inventory management** using text file imports for movie and customer data.
- **Ecommerce Website**
 - Built a comprehensive full-stack eCommerce platform using **MERN stack** with RESTful API integration, enabling efficient front-to-back communication.
 - Implemented **JWT-based authentication** to secure user sessions.
 - Designed **product management features** in **MongoDB**, gaining experience with structured data handling and backend data management.
- **Portfolio Website**
 - Developed a responsive portfolio site using **React** and **TailwindCSS**, styled for fast, adaptive performance with **Vite** as the build tool.
 - Utilized **utility-first CSS** for streamlined and customizable styling across devices, emphasizing a user-friendly, modern design.
 - Hosted on a **Raspberry Pi** using **Apache**, gaining hands-on experience with **basic computer networking**, server setup, and configuration for remote accessibility.