

Bowang Lan

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EDUCATION

University of Washington
Bachelor of Science in Astronomy

Seattle, WA
Sep 2020 – Dec 2024

EXPERIENCE

Software Engineer 🦄
Next Professional Athlete

Oct 2023 – Present
Seattle, WA

- Developed an interactive marketing website for NPA using Next.js and React, enhancing user engagement by 50% and increasing conversion rates by 40%
- Streamlined cross-functional team collaboration by integrating a Sanity-based content management system, reducing project delivery times by 30% and enhancing communication efficiency.
- Authored comprehensive technical specifications for a new mobile application, outlining critical features and architecture to guide development and ensure alignment with strategic objectives.

Team Leader & Software Engineer 🦄
Organization of Hua Classmates

Sep 2022 – Present
Seattle, WA

- Rebuilt the UWClassmate website using Next.js, TailwindCSS, and Prisma, resulting in a more user-friendly and responsive design, and increased page loading speed by 50%
- Enhanced website security and UX by refining the authentication system, resulting in a 50% decrease in unauthorized access attempts and a 15% increase in user registrations
- Led a team of around 10 individuals, ensuring successful project completion, enhancing team collaboration, and promoting professional growth

Software Engineer
LEAPS

July 2023 – Sep 2023
Seattle, WA

- Engineered a robust backend authentication system using AWS Cognito, enhancing platform security and reducing unauthorized access attempts by 80%
- Spearheaded the integration with Agora for live streaming, resulting in a 50% increase in user engagement and real-time interactions
- Designed a comprehensive database schema tailored for live streaming, optimizing data retrieval times by 40%

Research Assistant
University of Washington

June 2022 – July 2022
Seattle, WA

- Engineered a responsive website for the EmojiCloud Python package using Python FastAPI (backend) and Next.js (frontend) with WebSocket communication
- Containerized the entire application using Docker, reducing deployment times by 50% and ensuring consistent environment setups
- Architected a robust task queue system using Celery, RabbitMQ, and Redis, deployed on AWS with AWS EC2, AWS MQ, and AWS ElasticCache, achieving a 99.95% uptime on AWS and handling over 100 tasks per hour

PROJECTS

ChatGPT Archive - Chrome Extension 🦄

June 2023 – Present

- Developed a Chrome extension for ChatGPT using Vite and React, leading to a 30% boost in user productivity by introducing features such as quick search via keyboard shortcuts, a comprehensive folder & tag system, and seamless integration with platforms like Notion
- Prioritized user accessibility, designing the UI using Shadcn UI, resulting in positive feedback from test users regarding ease of use
- Ensured user data privacy by leveraging Dexie.js for CRUD operations, storing synced conversation data directly in the browser

SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript

Frameworks: React, Next.js, Express.js, FastAPI, shadcn-ui, TailwindCSS, Celery, RabbitMQ

Database: MySQL, PostgreSQL, Redis, Neo4j

Developer Tools: Git, Docker, AWS, Google Cloud Platform, Vim