

BO BRAMER

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wuguishifu

WORK EXPERIENCE

iBored

Senior Software Engineer
Software Engineer

San Diego, CA

June 2022 - Present
June 2021 - June 2022

- Designed and developed a cross-platform mobile app using React Native with TypeScript, Swift, and Java
- Created and maintained 25+ RESTful and event-driven backend microservices built in Node.js and Java Spring
- Optimized resource-intensive API endpoints to handle 20,000+ TPS with an average response time of 175 ms
- Engineered high-performance, real-time chat system with a focus on minimizing latency using AWS API Gateway and Lambda
- Created automated unit, integration, and E2E tests for API and mobile app using Grafana k6, Postman, and Detox
- Leveraged AWS Route53 and CloudFront distributions to optimize caching and serving of AWS S3 resources
- Managed the CI/CD pipeline and AWS deployment using AWS CloudFormation/CDK and Expo Updates
- Other notable tools include Figma, Next.js, Neo4j, MongoDB, Redis, RabbitMQ, and Docker

ChemTalk

Co-Founder/Software Developer

Thousand Oaks, CA

December 2020 - Present

- Increased traffic by 75% YoY by optimizing website caching to decrease CDN latency and First Contentful Paint time
- Developed multiple interactive web applications using React and integrated them into the WordPress website
- Built a suite of custom WordPress Block component for the website
- Worked on large scale projects such as a full website redesign and a comprehensive content overhaul
- Created internal automation tools to streamline processes for different teams within the organization
- Built AI-based content generation applications for organization writers to use to create educational chemistry content
- Managed a team of 55+ employees and interns and worked with internal and external hiring teams

PROJECTS

VCBB

Virtual Circuit Board Blueprint Website

Irvine, CA

January 2023 - March 2023

- Created a Next.js App using Typescript and Tailwind CSS for users to submit and view each other's VCB blueprints
- Leveraged tRPC and Zod for type safety and schema validation between frontend and backend
- Minimized microservice communication latency using gRPC to facilitate transactions
- Utilized NextAuth.js for reliable user authentication and session management
- Developed and deployed backend microservices built in Node.js using AWS Fargate and MongoDB Atlas

Phoster

E2E Application for Hosting and Sharing Photo Albums

Los Gatos, CA

October 2023 - November 2023

- Built Node.js backend service for users to host their own shared photo albums using local storage, AWS S3, or Google Drive
- Created Next.js App using Typescript, Tailwind CSS, and shadcn/ui that allows users to subscribe to other people's photo albums
- Developed event-driven services to occasionally perform operations such as generating thumbnail images
- Leveraged Docker to package the backend service for ease of user deployment

TECHNICAL SKILLS

- Typescript, JavaScript, Python, Node, Express, React, Next.js, HTML/CSS, Tailwind CSS, React Native, Java, MATLAB
- LLMs, Generative AI, ML, SQL, MongoDB, Neo4J, Redis, Docker, RabbitMQ, AWS Cloud Infrastructure, tRPC, gRPC, Prisma

EDUCATION

Bachelor of Science

University of California, Irvine

- **Major:** Chemical Engineering; **Specialization:** Biomolecular Engineering
- **Relevant Coursework:** Algorithms & Data Structures, Numerical Methods, Linear Algebra, Differential Equations (ODE and PDE), Vector Calculus

LEADERSHIP ACTIVITIES

- **Team Lead** - Senior Design Project (Renewable Diesel Refinery Plant)
- **President & Webmaster** - International Anteater Association
- **Vice President & Webmaster** - International Anteater Association
- **Board Member (Web Developer)** - Made with Love at UCI
- **Vice President** - LGHS Astronomy Club