

BO BRAMER

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EXPERIENCE

iBored, Senior Software Engineer

June 2022 – Present

- Designed and developed more than 25 microservices in JavaScript using MongoDB and Java using Spring Boot
- Ensured flexibility and scalability by deploying containerized microservices using Docker Compose and Kubernetes
- Reduced load times by >85% by utilizing AWS S3 and Wasabi for content delivery of images
- Increased search speed by optimizing database architecture for quick data aggregation and locally caching relevant results
- Developed internal tools such as database schema appliers, moderation platforms, and communication services
- Decreased startup cost of cross-platform development by utilizing React Native for mobile app and React for website
- Tech stack: MERN (MongoDB, Express, React, Node)

ChemTalk, Co-Founder

December 2020 – Present

- Co-founded and created one of the top popular chemistry educational websites with over 500k unique monthly visitors
- Led a team of 50+ interns and employees in creating engaging educational content on a variety of chemistry topics
- Increased traffic by 75% year over year by optimizing content for search engines and website metrics like load time
- Developed interactive web apps, including a dynamic periodic table receiving >50k unique visits
- Created automation tools to streamline processes for different teams within the organization
- Worked with an internal team to raise over \$150k in funding from various organizations including the Amgen Foundation and the Camille Dreyfus Foundation
- Managed multiple large-scale projects, including a full website redesign and a comprehensive content overhaul

PROJECTS

Applico

March 2023

- Developed a web-based job tracking platform called Applico that allows users to track the status of their job applications
- Worked with a design team to create a responsive design for Applico to ensure a seamless user experience
- Decreased service-service and service-client communication time by 80% using gRPC to facilitate transactions
- Increased horizontal scalability by deploying containerized microservices using AWS Fargate and using MongoDB Atlas
- Tech stack: MERN (MongoDB, Express, React, Node)

VCBB

October 2022

- Built a web app for sharing Virtual Circuit Board blueprints using Next.js with TypeScript
- Minimized development time by ensuring type safety between frontend and backend using tRPC and Zod
- Leveraged Prisma to ensure type safety and high reliability when connecting to SQLite database
- Utilized NextAuth.js for reliable user authentication and session management
- Worked alongside UI/UX engineers to implement designs using Tailwind CSS
- Tech stack: T3 (Next.js, TypeScript, tRPC, Prisma)

TECHNICAL SKILLS

- Java, JavaScript, Typescript, React Native, React, Next.js, Node, Express, MongoDB, HTML/CSS, Python, gRPC, tRPC, Prisma
- Vim, Microservice Architecture, Database Architecture/Design, Ubuntu, Optimization, DevOps, Data Management

EDUCATION

University of California, Irvine

B.S. Degree – September 2022

- Major: Chemical Engineering; Specialization: Biomolecular Engineering
- Relevant Coursework: Numerical Methods, Linear Algebra, Differential Equations, Vector Calculus

LEADERSHIP ACTIVITIES

- Team Lead – Senior Design Project January 2022 – June 2022
- Vice President – International Anteater Association August 2020 – June 2021
- Board Member (Web Developer) – Made with Love at UCI July 2020 – June 2022
- Officer – LGHS Astronomy Club September 2016 – June 2018