BO BRAMER

@ bramer.bo@gmail.com   in bo-bramer   🌐 bo-bramer.com   ⌂ wuguishifu

EXPERIENCE

ChemTalk, Co-Founder

Thousand Oaks, CA   December 2020 – Present

- Co-founded 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
- Developed interactive web apps, including a dynamic periodic table
- 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 such as the Amgen Foundation and the Camile Dreyfus Foundation
- Managed multiple large-scale projects, including a full website redesign and a comprehensive content overhaul
- Built custom scripts and components such as a contributors list

iBored, Lead Software Engineer

San Diego, CA   June 2022 – Present

- Designed and developed more than 25 microservices in TS, JS, and Java
- Deployed dockerized microservices using Docker Compose and Kubernetes
- Utilized AWS S3 and Wasabi to store and manage large files such as images
- Designed database architecture for quick data aggregation
- Managed the CI/CD pipeline and developed internal tools such as database schema appliers, moderation platforms, and communication services
- Built a cross-platform mobile app using React Native and a public website using React
- Collaborated with the UI/UX team to implement best practices and improve the overall user experience
- Tech stack: MERN (MongoDB, Express, React, NodeJS) and React Native

PROJECTS

Molecular

Irvine, CA   June 2019 – January 2021

- Created a desktop application for exploring molecules in 3D using custom graphics engine in Java with OpenGL and GLSL
- Implemented advanced computational physics and chemistry algorithms, such as the Hartree-Fock method
- Developed an efficient data structure for storing and managing sets of molecules
- View more details at https://bo-bramer.com/projects/molecular

Mujank

Irvine, CA   July 2021 - October 2021

- Developed a gacha card trading game on Discord with 100+ users, leveraging the platform's bot API
- Created various community activities, such as trading and gambling with in-game currency
- Built a website counterpart with features such as card search and game balance history
- Deployed on Heroku and Raspberry Pi for high availability and fast API response times
- View more details at https://bo-bramer.com/projects/mujank

EDUCATION

University of California, Irvine – Bachelor of Science   September 2018 – September 2022

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

TECHNICAL SKILLS

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

LEADERSHIP ACTIVITIES

- Vice President – International Anteater Association @ UCI   August 2020 – June 2021
- Board Member (Webmaster) – Made with Love at UCI   July 2020 – June 2022
- Officer – LGHS Astronomy Club   September 2016 – June 2018