Aaron Hull

⦿ Austin, Texas   ✉ aahull08@gmail.com   ⚲ Portfolio   in aaron-hull-austin

EXPERIENCE

Bard-rr ⬀   2022 – present
Co-Creator, Software Engineer

Bard is an open-source, session replay tool for viewing and analyzing user sessions.
- Researched existing products to identify the most impactful features and explore architectural challenges.
- Developed an open-source, lightweight, self-hosted session replay tool specializing in conversion funnel analysis.
- Augmented existing open-source recording engine (rrweb) with session management functionality and published it as an npm package for easy instrumentation.
- Engineered data ingestion and retrieval system optimized for high write volume and complex analytical queries over large datasets using Node.js, PostgreSQL, Clickhouse, and RabbitMQ.
- Built the Bard user interface allowing for viewing, filtering, and ordering user sessions using HTML/CSS, JavaScript, MaterialUI, and React.
- Automated two containerized deployment options: Docker Compose and AWS (ECS, Fargate, and EFS).
- Authored a comprehensive <u>case study</u> ⬀ defining the problem domain, architectural design decisions, and technical challenges faced while developing Bard.

Self-Employed   2021 – 2022
Full-Stack Web Developer

- Developed open-source web applications using technologies such as Ruby, Node.js, PostgreSQL, MongoDB, React, JavaScript, HTML, and CSS.
- Selected Projects:
  - Request Cart: A Node.js application built with Express, MongoDB, PostgreSQL, React, and Websockets to collect and debug webhooks.
  - Daily Budget: A daily budgeting app created with Ruby, HTML, CSS, Sinatra, PostgreSQL, and JavaScript.

Younghoon International Middle School   2016 – 2022
Social Studies Teacher, Team Lead

- Designed and implemented lessons in World History, Geography, and International Studies.
- Led the eighth-grade team by holding weekly meetings, leading PLCs, and mentoring new teachers.

SKILLS

Front-End	Back-End	Tooling
React, JavaScript, HTML5, CSS, MaterialUI	*Node.js, Express, Ruby, Go, PostgreSQL, MongoDB, RabbitMQ, Clickhouse DB, RESTful APIs*	*Git/GitHub, Docker, Linux, Bash, rrweb, DigitalOcean, AWS ECS/Fargate/EFS/EC2*

EDUCATION

Software Engineering   2021 – 2022
Launch School
Mastery-based full-stack software engineering program with a focus on programming fundamentals through written assessments, live coding interviews, and take-home projects.

BA History   2006 – 2010
Bethel College