Eugene O'Fallon

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Technical Projects

Bard ☑ 08/2022 – present

Creator, Software Engineer

Bard is an open-source session replay and conversion analysis tool.

- Designed a backend system to ingest high volumes of data with Express.js, RabbitMQ, Clickhouse, and Postgres
- Published an npm package for the data collection agent
- Developed Bard's UI using React and MaterialU enabling the visual analysis of user sessions in the context of conversion funnels
- Automated Bard's deployment to AWS using the JavaScript SDK, ECS, EFS & Fargate
- Collaborated with a remote team of 4 engineers, including daily stand-ups and pair programming
- Authored a comprehensive technical case study detailing Bard's problem domain and the design decisions and implementation challenges encountered while building Bard: https://bard-rr.com 🗷

Launch School 2020 – 2022

- Attended a mastery-based education program focused on software engineering fundamentals.
- Developed open-source web applications with technologies such as Node.js, Ruby, Sinatra, PostgreSQL, React, JavaScript, HTML, and CSS.
 - RequestBin: A real-time Node.js application built with Express, MongoDB, PostgreSQL, and web sockets to collect and monitor webhook requests.

Professional Experience

Manufacturing Engineer

05/2019 - 03/2022 | Tulsa, OK

Arcosa Wind Towers

- Reduced tooling costs by 50K by rebuilding and automating the design process and eliminating opportunities for human error.
- Improved the building of wind towers by studying, designing, and documenting manufacturing processes.

Undergraduate Research Assistant

06/2018 – 08/2018 | Washington, DC

Naval Research LAb

• Numerically modeled and analyzed detonation-driven flow fields to better understand fluid dynamics & heat transfer within a rotating detonation engine simulation.

Education

Full-Stack Software Engineering

2020 – present

BS in Mechanical Engineering (3.39)

2015 - 2019

University of Oklahoma

Clickhouse, RabbitMQ

Skills

Backend	Frontend
Node.js, Express, Ruby,	JavaScript, React, HTML, CSS
PostgreSQL, MongoDB,	

ToolingDocker, AWS (ECS, Fargate, EFS) DigitalOcean (droplet)