

Eugene O'Fallon

Software Engineer

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Profile

I'm a full-stack software engineer based in Tulsa, Oklahoma. I've developed with JavaScript/Node.js, Ruby, AWS, Docker, PostgreSQL, and React. Recently, I developed Bard [🔗](#), an open-source session replay tool that enables the viewing and analysis of user sessions.

Experience

Creator, Software Engineer [🔗](#)

Aug 2022 - Dec 2022

Bard (<https://bard-rr.com>)

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

- Engineered data ingestion and retrieval system optimized for high write volume and complex analytical queries over large datasets using RabbitMQ, Clickhouse, Express, and PostgreSQL
- Augmented existing open-source recording engine (rrweb) with session management functionality and published it as an npm package for easy instrumentation
- Developed Bard's UI using React and Material UI enabling the visual analysis of user sessions in the context of conversion funnels
- Automated two containerized deployment options: Docker Compose and AWS (ECS, Fargate and EFS)
- Collaborated with a remote team of 4 engineers, including daily stand-ups and pair programming
- Authored a comprehensive technical case study detailing the problem domain, design decisions, and implementation challenges encountered while building Bard

Software Engineer

2020 - 2022

Open Source Projects

- RequestBin: A real-time Node.js application built with Express, MongoDB, PostgreSQL, web sockets, and Nginx to collect and monitor webhook requests
- The Shop: A database-backed e-commerce app built with React, MongoDB, and Node.js

Manufacturing Engineer

May 2019 - Mar 2022

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

Skills

Backend

Node.js, Ruby, Go, Postgres, MongoDB, Clickhouse, RabbitMQ

Frontend

JavaScript, React, HTML, CSS, Handlebars.js

Tooling

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

Education

BS in Mechanical Engineering

2015 - 2019

University of Oklahoma