# Eugene O'Fallon

Software Engineer

⌖ epofallon.com ✉ epofallon@gmail.com 📍 Tulsa, OK

🪪 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.

📁 Technical Experience

Creator, Software Engineer, *Bard ↗*   Aug 2022 – Dec 2022

Bard is an open-source session replay and conversion analysis tool: https://bard-rr.com
- 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, *Open Source Projects*   2020 – 2022
- RequestBin: A real-time Node.js application built with Express, MongoDB, PostgreSQL, web sockets, and Nginx to collect and monitor webhook requests
- Shopping Cart: A database-backed e-commerce app built with React, MongoDB, and Node.js
- Todo App: A Ruby todo list application built with Sinatra, ERB, HTML and JavaScript

🎨 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

Full-Stack Software Engineering, *Launch School*   2020 – 2022

Attended a mastery-based education program focused on software engineering fundamentals

BS in Mechanical Engineering, *University of Oklahoma*   2015 – 2019

💼 Professional Experience

Manufacturing Engineer, *Arcosa Wind Towers*   May 2019 – Mar 2022 | Tulsa, OK
- 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