

# Eugene O'Fallon

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## 📁 Technical Projects


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### Bard

Aug 2022 – present

*Creator, Software Engineer*

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: <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, 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

## 📁 Professional Experience

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### Manufacturing Engineer

May 2019 – Mar 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

## 📁 Education

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### Full-Stack Software Engineering

2020 – present

*Launch School*

### BS in Mechanical Engineering

2015 – 2019

*University of Oklahoma*

## 🧠 Skills

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### Backend

Node.js, Express, Go, Ruby,  
PostgreSQL, MongoDB,  
Clickhouse, RabbitMQ

### Frontend

JavaScript, React, HTML, CSS,  
Handlebars.js

### Tooling

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