

# Eugene O'Fallon

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

## Technical Projects


---

### **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 MaterialU 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.

## Professional Experience

---

### **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

---

### **Full-Stack Software Engineering**

2020 – present

*Launch School* 

### **BS in Mechanical Engineering (3.39)**

2015 – 2019

*University of Oklahoma*

## Skills

---

### **Backend**

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

### **Frontend**

JavaScript, React, HTML, CSS

### **Tooling**

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