

# Eugene O'Fallon

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## 📁 Experience

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### Senior Software Engineer

Mar 2023 – Present

Nationwide

- Integrated AI capabilities by connecting a research model (Tavily AI) to automate data collection and underwriting research, reducing manual research work in the insurance underwriting process
- Led development of a CRM-like internal platform, guiding a team of up to 4 engineers and 2 interns. Translated high-level business needs into scalable features, technical tasks, and deployment milestones while still contributing in significant technical ways
- Designed and Implemented a 17-table relational database, RESTful APIs, and razor front-end
- Optimized backend performance with custom searching, sorting, and pagination to efficiently support data-heavy front-end tables.
- Strengthened application security by remediating vulnerabilities such as XSS, trust boundary violations, SMTP injection, and path traversal issues

### Creator, Software Engineer ✍

Aug 2022 – Dec 2022

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

- Built an open-source session replay/conversion analysis tool using React, Node.js, PostgreSQL, Clickhouse and RabbitMQ
- Automated two containerized deployment options: Docker Compose and AWS (ECS, Fargate and EFS)
- Augmented existing open-source recording engine (rrweb) with session management functionality and published it as an npm package for easy instrumentation
- 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

- Automated tooling design, saving \$50K annually and optimized wind tower production processes

## 🧠 Skills

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#### Backend

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

#### Frontend

JavaScript, React, HTML, CSS,  
Handlebars.js

#### Tooling

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

## 🎓 Education

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### BS in Mechanical Engineering

2015 – 2019

University of Oklahoma