

# Joseph Guillaume *Software Engineer*

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## Profile

I have multiple years of experience as a Software Engineer, with a strong background in JavaScript and Go, as well as experience using various frameworks and AWS. Prior to my career in Software Engineering, I was a School Psychologist, where my focus was on performing detailed assessments and managing multiple ongoing evaluations simultaneously.

## Technical Experience

08/2022 – Present

### **Creator, Software Engineer, Armada**

Co-created Armada (<https://team-armada.github.io/>), an open-source tool that enables the configuration and deployment of development environments in the cloud.

- Led project team through the development, prototyping, and launch of Armada using Node.js, Docker, and Amazon Web Services (ECS, ALB, RDS, Lambda, EFS, Cognito, EC2).
- Devised networking strategy using an Application Load Balancer (ALB), Load Balancer Listeners, and Target Groups to enable path-pattern routing to stateful containers.
- Developed storage strategy and directed project team implementation utilizing Amazon's Elastic File System (EFS) and serverless functions (Lambda) to enable data persistence.
- Designed and implemented backend service with endpoints engineered to simplify the end-user experience and facilitate communication between several AWS products (Node/Express, PostgreSQL, Prisma, SDK, TypeScript).
- Built user interface to enable users to create, organize, and manage development environments (React, Chakra UI).
- Served as lead author on a comprehensive case study providing an in-depth analysis of Armada's problem domain, system design, and engineering decisions.

11/2021 – 08/2022

### **Teaching Assistant, Launch School**

- Led study groups teaching programming fundamentals and problem-solving.
- Performed detailed code reviews on student programming assignments.
- Answered technical forum questions, graded exams, and wrote course content.

2020 – 2022

### **Software Engineer, Self-Employed**

Developed many open-source applications using technologies including JavaScript, Node.js, Express, React, Redux, SQL, MongoDB, HTML, and CSS.

- **WreckBin** - RequestBin-like tool for receiving and inspecting webhooks (Express, MongoDB, Node.js, React).
- **Shopping Cart** - A small e-commerce, shopping-cart application (Docker, React, TypeScript).
- **Airlines** - An application that displays and filters airline routes with pagination (React).

## Professional Experience

2016 – 2022

### **School Psychologist, Cuyahoga Heights Schools & Maple Heights City Schools**

- Focused on promoting positive school-home relationships through collaboration, education, and information accessibility.
- Created & Lead the Intervention Assistance Team (IAT) on a weekly basis to support students' academic, behavioral, and social-emotional needs.

## Skills

### **Languages**

JavaScript, TypeScript, Go, SQL, CSS, HTML

### **Frameworks & Libraries**

React/Redux, Express, Jest

### **Cloud**

AWS (ECS, ALB, RDS, Lambda, EFS, Cognito, EC2), Digital Ocean (Droplets)

### **Other Technologies**

Docker, PostgreSQL, SQLite, MongoDB, HTTP, REST, Git/GitHub, Linux

## Education

2020 – 2022

### **Software Engineering, Launch School**

Mastery-based school for software engineers: [launchschool.com/employers](https://launchschool.com/employers)

2015 – 2016

### **Education Specialist Degree (Ed. S.), John Carroll University**

2013 – 2015

### **Masters of Education (M. Ed.), John Carroll University**

2007 – 2011

### **Bachelor of Arts (Psychology), Bowling Green State University**