

# 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      **Co-Creator, Software Engineer, Armada**  
Armada (<https://team-armada.github.io/> 🌐) is 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 AWS (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 UI for creating, organizing, and managing 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).

## Non-Technical 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 & led the Intervention Assistance Team (IAT) on a weekly basis to support student's 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**