

# Morgan Davis *Software Engineer*

✉ morgansumdavis@gmail.com

📍 Harrisburg, PA

🌐 morgansummerdavis.com

🔗 Morgan-Summer-Davis

I'm a software engineer proficient in Ruby and Typescript. I'm based in Harrisburg, PA and seeking opportunities locally, in Philadelphia, PA, or in New York, NY. In my free time, I enjoy rock climbing and printmaking.

## EXPERIENCE

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### Creator, Software Engineer, *Reverb*

2024

Reverb is an open-source, self-hosted, event-driven, asynchronous workflow engine that abstracts away the logic and infrastructure developers need to orchestrate complex background tasks.

- Implemented a wrapper around CDK core methods, reduced an 152 step AWS deployment to one command
- Developed a micro-service architecture hosted on AWS for ingesting events, mapping events to workflows, and executing these workflows (**AWS ECS, EC2, Fargate, Lambda, RDS, RDS Proxy**)
- Implemented a relational database to serve as a durable task queue for asynchronous handling of events and tasks (**PostgreSQL, Graphile Worker**)
- Wrote a TypeScript SDK, exposed through an NPM package, enabling developers to define workflows as step functions and expose them to remote procedure calls
- Published production-ready, CJS and ESM format-compatible NPM packages
- Containerized the application code for deployment in multiple environments (**DockerHub Images, Docker Compose**)
- Implemented structured logs for monitoring workflow state, which are saved into a NoSQL database (**Winston, MongoDB**)
- Built Reverb's UI dashboard for monitoring event logs, allowing observability without needing to manually SSH into the EC2 instance (**React**)
- Implemented comprehensive unit tests to prevent code-base regression (**Jest**)
- Authored a technical case-study on Reverb's implementation, architecture and development challenges 📄

### Software Engineer, *Open-Source Projects*

2021 – 2024

Developed various personal, open-source web applications.

- HTTP Hoarder: A tool for inspecting webhooks and HTTP requests (**Node.js, Express, React, MongoDB, WebSockets, Digital Ocean Droplet, Nginx**)
- Pantry Pal - A Single Page Application for recording recipes and managing ingredient stock (**Ruby, Sinatra, ERB, SQL**)

### Illustrator, *Freelance*

2017 – 2021

- Worked with dozens of clients on per-contract basis, integrating rapidly into existing small teams and design philosophies for visual design projects

## EDUCATION

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### Bachelor of Fine Arts in Studio Art, *Messiah University*

2013 – 2017

## SKILLS

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### Programming Languages

JavaScript, TypeScript, Ruby, Golang, SQL, HTML/CSS

### Other

Object Oriented Programming, REST API, Adobe Design Suite (Photoshop, Illustrator, InDesign)

### Libraries, Frameworks, and Other Tools

Node.js, Express, React, Sinatra, JQuery, Git, GitHub, PostgreSQL, MongoDB, Bash, Linux, Docker, Graphile Worker, Nginx, Jest, MiniTest, Postman

### Cloud

DigitalOcean, AWS, Heroku