

Ethan Weiner

✉ dev@ejweiner.com ☎ (508) 492-2954 📍 Boston, MA 🌐 ejweiner.com in ethan-weiner 📺 ethanjweiner

SKILLS

Languages

JavaScript (ES6), TypeScript, Ruby, Go, Python 3, SQL

Cloud

AWS CDK, SDK, API Gateway, EC2, ECS, EFS, RDS, Step Functions, S3, CloudFront, SNS, Digital Ocean Droplets, Firebase, Heroku

Frameworks & Libraries

React/Redux, Express, Vue, Sinatra, Zod, Flask, Ionic

Other

Git, Github, Node.js, PostgreSQL, MongoDB, Docker, HTML5, CSS, Nginx, Prisma, Bash, Jest, Cypress, HTTP, REST, WebSockets

TECHNICAL EXPERIENCE

Software Engineer & Co-Creator, *Seamless CI/CD*

Jan 2023 – present

Seamless (seamless-cicd.com) is an open-source, low-config CI/CD pipeline for containerized microservices on ECS.

- Architected a serverless state machine (AWS Step Functions) for orchestrating tasks and running pipelines in parallel.
- Developed 7 TypeScript apps with ECS Task Definitions so each pipeline stage can run and scale independently; configured auto-scaling metrics, a shared Docker volume on EFS, and IAM policies.
- Set up a WebSockets API to facilitate near real-time status updates and log streaming to a React UI hosted on S3.
- Created RESTful APIs with Express.js and Node, allowing users to link microservices to pipelines and set up webhooks for automatic triggers; used Octokit for GitHub interaction and an API Gateway to handle requests.
- Built a CLI (published as an npm package) with CDK infrastructure-as-code that deploys 13 CloudFormation stacks with one command that would take over 50 API calls to AWS to accomplish.
- Transformed a linear pipeline flow into an adaptable system supporting 8 different CI/CD workflows and Git branching strategies (GitHub flow, trunk-based) with various merging, staging, and continuous deployment options.
- Implemented a relational data model using RDS for PostgreSQL and the Prisma ORM to facilitate migrations.
- Authorized secure access to private user repositories by implementing Github's OAuth web flow.
- Automated manual deployments of microservices, cutting deployment times from hours to under 20 minutes.
- Led the authoring of a technical case study on Seamless' problem domain, architecture, and design decisions.
- Collaborated closely with a distributed team of 3 engineers across 2 time zones using agile workflow.

Full Stack Software Engineer, *Reelin' Landscaping*

May 2020 – May 2022

- Built and maintained JobItinerary, a cross-platform progressive web application (PWA) for tracking employee work, compensating employees, and invoicing customers (JavaScript, Vue.js, Ionic, Firebase).
- Transformed the company's internal processes, saving over 500 hours of manual record-keeping and invoicing.

RELEVANT PROJECTS

Developed open-source software; selected projects include:

- JaguarBin: A real-time webhook debugging tool (Socket.io, Nginx, PostgreSQL, MongoDB, Digital Ocean Droplet).
- BloomShare: A plant inventory manager and query tool for searching 300,000+ species (Ruby, Sinatra, PostgreSQL).
- The Smooches: A Dockerized slideshow application built with Docker Compose (MERN, EC2, S3, CloudFront).
- Visualize the Web: A geographic simulator and visualizer of packet transmission between IP addresses for an HTTP request/response cycle (Python, Flask, JavaScript).
- Playlist Blender: An app that combines playlists from music streaming services (Vue, JavaScript, RESTful APIs).

TECHNICAL CONTENT CREATION

- Maintained educational Youtube channel focused on full-stack development with 800+ subscribers and 500k views.
- Published technical articles on programming and learning, helping 500+ students improve assessment performance.

EDUCATION

Core and Capstone Program, *Launch School*

Sep 2021 – Apr 2023

Multi-year full-stack software engineering curriculum emphasizing mastery of full stack development fundamentals

Northeastern University

Sep 2020 – Jan 2021

Completed Coursework: Fundamentals of Computer Science, Discrete Structures, Intro to Mathematical Reasoning