

Ethan Weiner

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Skills

Languages:

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

Frameworks & Libraries:

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

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

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, Remote

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

Software Engineer, Reelin' Landscaping, Barnstable, MA

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

Projects

JaguarBin (Jan 2023 – Mar 2023): React, TypeScript, MongoDB, Socket.io, Nginx, PostgreSQL, Digital Ocean Droplet

- A tool for web developers that enables easy collection, inspection, and debugging of webhooks in near real-time

BloomShare (Apr 2022 – Jun 2022): Ruby, Sinatra, PostgreSQL, Heroku

- A community-oriented plant inventory manager and query tool for searching 300,000+ plant species

The Smooches (Dec 2022 – Jan 2023): React, Express, Node, TypeScript, MongoDB, Docker Compose, AWS EC2, S3

- A user-friendly slideshow application showcasing personal pet photography, integrating a community upload feature

Visualize the Web (Jun 2021 – Sep 2021): Python, Flask, JavaScript, Heroku

- A geographic simulator that accurately portrays packet transmission in an HTTP request-response cycle

Playlist Blender (Jan 2021 – Apr 2021): Vue.js, JavaScript, Firebase, RESTful APIs

- A web application that utilizes set theory principles to merge playlists from three different music streaming services

Technical Content Creation

- Maintained an educational [Youtube channel](#) 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 - Present

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

Northeastern University

Sep 2020 - Jan 2021

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