

# Andi Crotwell

## Software Engineer

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### PROFILE

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I am a full stack and distributed systems engineer with a passion for tinkering. I have expertise in designing, implementing, and scaling distributed architectures. I also have multiple years of experience building consumer facing software with a proficiency in Ruby, Go, NodeJS, JavaScript, TypeScript and AWS.

### SKILLS

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#### Languages

Ruby, Go, Javascript,  
Typescript, HTML, CSS,  
SQL, Crystal

#### Frameworks

Ruby on Rails, ExpressJS,  
Sinatra, React, NextJS

#### Technologies

Git, NodeJS, Redux, Docker,  
PostgreSQL, MongoDB,  
Redis, RESTful API's,  
GraphQL

#### Cloud

AWS, Heroku

### PROFESSIONAL EXPERIENCE

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#### Software Engineer

*Dendro*

2021 – present  
Asheville, NC

- Co-created and deployed an open source, real-time, distributed log centralization pipeline utilizing languages & technologies such as Go, TypeScript, React & NextJS
- Researched and implemented a multi-service logging pipeline on AWS using services such as Kinesis Firehose, S3, Lambda, Timestream and SNS
- Created a Go lang application to ingest and transform logs into time-series data in real-time
- Designed the alerting and monitoring system to notify operators of system failures in near real-time
- Managed the migration from JavaScript to TypeScript
- Created a React/NextJS application in Typescript to view, query & monitor health metrics
- Co-authored the case study for Dendro <https://getdendro.com> 📄

#### Software Engineer

*BridgeAPI*

2020 – 2021  
Asheville, NC

- Co-created BridgeAPI, an open-source serverless integration platform to connect apps through event-driven workflows
- Built the backend workflow to receive, save, filter, and forward HTTP requests
- Developed a background job processor to handle multiple events concurrently using Sidekiq and Redis
- Implemented user authentication and authorization using JSON web tokens (JWT)
- Built the React frontend using NextJS
- Deployed the app to AWS (EB, EC2, S3, Lambda, Aurora, CloudFront)
- Created testing suites of the backend using RSpec and of the frontend using Cypress
- Co-authored the case study for BridgeAPI: <https://bridgeapi-dev.github.io/> 📄

#### Freelance Software Engineer

2018 – 2020

- RequestBin: A Ruby on Rails application to capture and monitor webhooks and API requests
- Jello Task Manager: A kanban board application built with React, Redux, ExpressJS and MongoDB
- Serverless.cr: An AWS Lambda custom runtime to run Crystal applications
- Motion.cr: A framework for building reactive, real-time frontend UI components
- Mochi: An authentication library for the Amber framework

### EDUCATION

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#### Launch School

Multi-year full-stack software engineering curriculum emphasizing mastery of core skills and programming fundamentals  
[launchschool.com/employers](https://launchschool.com/employers) 📄

05/2019 – 06/2021