

Nathan Classen

Software Engineer — Denver, CO

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TECHNICAL EXPERIENCE

Software Developer II - TechInsights

Jun 2020 - Present

- Lead development of new Golang micro-service for integration with Salesforce Pardot, which scales to handle thousands of daily user interactions along with bursting workflows; created Golang Pardot client package
- Build containerized Java Spring services and deploy to AWS ECS via Bitbucket pipelines, as well as manage and deploy packages with Maven
- Developed Lambda micro-service, deployed as Docker image on AWS ECR to construct working dependency environment; handles thousands of concurrent on-the-fly image resize jobs
- Offer guidance to team members around serverless concepts and setting up Serverless deployments
- Implemented migration to transfer millions of legacy files from remote servers to data lake on AWS
- Work remotely with full-stack Agile team to maintain, develop, and test backend Java, Golang, and Node services, supporting platform with thousands of daily users

Co-creator, Software Engineer - Bento

Jan 2020 - Jun 2020

- Bento is a serverless video transcoding pipeline, which utilizes AWS Lambda functions to fan out transcoding jobs to hundreds of concurrently executing containers
- Cut time to transcode by 90% when compared with single EC2 instance running transcoding software, and 50% when compared with Amazon MediaConvert
- Solved race conditions related to high concurrency, by tracking state within DynamoDB and streaming events to achieve event-driven architecture
- Set up deployment of AWS resources with Serverless framework
- Created user dashboard with React for clean UI and simple UX
- Co-Authored detailed case study describing the Bento pipeline and the engineering challenges of serverless architectures bento-video.github.io

Personal Work

Jun 2017 - Oct 2020

- **Cantor**: Designed, developed, deployed Cantor; a React Native mobile app—deployed to App Store and Google Play using Fastlane—which facilitates singing of the Psalter
 - cantorpsalms.com
- **Pellow**: Project management software built with React/Redux and Rails back-end
- **Postit!**: A Reddit clone built with Rails and PostgreSQL
- **Check_**: Personal organization tool built with Sinatra, PostgreSQL, and Handlebars.js

EDUCATION

Launch School

Summer 2017 - Spring 2020

A rigorous [software engineering school](#) with a multi-year curriculum written for professional-grade engineering, focused on teaching the fundamentals of engineering through a master-based pedagogy.

Tulsa Community College

Summer 2013 - 2017

General studies focused on obtaining a BS in Architectural Engineering.

TECHNICAL SKILLS

- Java, Golang, JavaScript, SQL, Ruby, Typescript, HTML/CSS
- Serverless Framework, BitBucket Pipelines, Docker, React, PostgreSQL, Spring, Linux, Maven, Hugo, Angular
- AWS Suite: Lambda, S3, SNS/SQS, DynamoDB, ECS, SecretsManager, Cloudwatch, API Gateway