

Nathan Classen

Software Engineer Denver, CO

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TECHNICAL EXPERIENCE

Co-creator, Software Engineer - Bento

Spring 2020 - Present

- Bento is a serverless video transcoding pipeline
- Implemented using AWS Lambda functions to parallelize video transcoding jobs
- Cut time to transcode by 90% when compared with single server running transcoding software, and 50% when compared with **Amazon MediaConvert**
- Persisted user and video data with Dynamo DB
- Built solutions to problems related to concurrency by tracking state within DynamoDB
- Handled race conditions by introducing and consuming database stream events
- Set up deployment of AWS resources with Serverless framework
- Created user dashboard with React.js for clean UI and simple UX
- Created Docker image to deploy dashboard consistently across servers, and containerized Express app for easy deployment to the cloud
- Wrote Express backend for client, to facilitate interactions with various AWS service APIs
- Co-Authoring detailed case study describing the Bento pipeline and the engineering challenges of its serverless architecture. bento-video.github.io

Self-Employed

Summer 2017 - Spring 2020

Built several personal projects and open-source applications including:

- **Pellow**: Project management software built with React/Redux and Rails back-end
- **Postit!**: A Reddit clone built with Rails and PostgreSQL
- **Check_**: Personal organizational 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. <https://launchschool.com/employers>

Tulsa Community College Summer 2013 - 2017

General studies focused on obtaining a BS in Architectural Engineering.

SKILLS

Back-end: Ruby, Rails, Node.js, Express.js, Sinatra, PostgreSQL, REST APIs

Front-end: JavaScript ES6, React.js/Redux, HTML/CSS

Cloud: AWS Suite including AWS Lambda, S3, API Gateway, DynamoDB, AWS IAM, EC2