Zane Bauman

Senior Software Engineer

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Co-owner & Senior Software Engineer
Collected / Columbus, OH / Jul. 2017 to Dec. 2021

Overview
I became co-owner after working as a contracted engineer for Collected from 2017 to 2018. Collected provided scheduling services for event-based organizations, launching in Feb. 2020. Following pandemic related shutdowns, we pivoted to being a platform for musician training resources. This included streaming videos, music charts, downloads, and more.

Architecture
- **Amazon Web Services**: EC2 & ELB for application servers and auto-scaling. RDS & ElastiCache for MariaDB and Redis. S3 & CloudFront for storage and CDN. Lambda, SQS, MediaConvert, SNS, ECR, and EFS for the content processing pipeline. Other supporting services: SES, IAM, Route53, Secrets Manager, Certificate Manager, VPC, Event Bridge.
- **NodeJS Web Server**: TypeScript, Express, Zod, PM2, Jest.
- **React Web App**: TypeScript, Webpack, Babel, Material-UI, Redux, React-router, Axios, DayJS, Recharts, DashJS & HLSJS, Formik, Jest, React-query, React-spring.
- **Other**: MariaDB for database. Redis for caching, analytics, and sessions. Docker for local development. GitHub Actions for CI/CD.

Highlights
- **Content Processing Pipeline**: I built a content processing pipeline from scratch. Multipart uploads were done directly to AWS S3 via pre-signed URLs. AWS Lambda was used for processing images, virus scanning, and video pre-processing. AWS SQS was used for asynchronous job status communication. Original content was archived for optional future reprocessing. AWS MediaConvert was used to convert uploaded videos to CMAF for adaptive bitrate streaming with HLS or MPEG-DASH.
- **Team Lead**: I oversaw all developers we hired during my time at Collected. This involved interviewing, onboarding, day-to-day management, and performance reviews.
- **Timezones**: The first version of Collected was mostly focused on scheduling team members for events. This required many complex calculations and systems to be built around timezones and communication across timezones. My approach was to work with all times in unix timestamps and do conversions on the front end.
- **Stripe Payments**: The first version of Collected was a subscription based system. I built a payment processing system using Stripe. This included subscriptions, saved payment methods, carts, coupons, automated systems for failed payments/cancelations, and email communication.

Software Engineer & Business Services Contractor
Freelance / Toledo, OH & Bradenton, FL / Sep. 2016 to Jan. 2018

Overview
I worked as a contracted software engineer, bookkeeper, and general I.T. support. Most of my clients were non-profits in the Toledo, Ohio area. I setup and managed Office 365, mailing lists, CRM software, and donation software. For Software Engineering I built and managed multiple clients' websites.

Architecture
- **Web Servers**: Hosted on Linode.com and built with PHP, MySQL, Apache, and Memcached.
- **Websites**: These were often simple jQuery sites, some were built with Wordpress.

Highlights
- **Time Tracking, Inventory & Inspections**: CorpClean (my previous company, later a customer) needed a simple system to provide time tracking, inventory, and inspections for their employees. For the time tracking I used Twilio to allow employees to call/text to clock in/out, this could then be viewed by managers. The inventory management allowed creating products, orders, inventorying, and requesting new supplies to be ordered. The inspections allowed creating buildings, rooms, and sections. Inspectors could then perform ratings and uploading images.

Owner & CEO
CorpClean / Toledo, OH / Mid 2012 to Aug. 2016

Overview

I owned and managed CorpClean for 4 years before selling the company to pursue software engineering as a career. CorpClean provided janitorial services including cleaning, floor striping & sealing, carpet cleaning, and window cleaning.

Highlights

- **Employee Management**: I hired, trained, and managed dozens of employees during my time at CorpClean. At times there were up to 7 employees working simultaneously.
- **Customer Service & Sales**: I spent a large portion of my time in sales and customer service, giving me extensive experience working with customers, problem solving, and clear communication.

Skills & Education

- **JavaScript** (8 years)
- **PHP** (8 years)
- **MySQL/MariaDB** (7 years)
- **NodeJS** (4 years)
- **TypeScript** (3 years)
- **React** (3 years)
- **React Native** (<1 year)
- **jQuery** (7 years)
- **Redis** (2 years)
- **Python** (<1 year)
- **Adaptive Bitrate Streaming** (2 years)
- **Docker** (5 years)
- **Git & GitHub** (7 years)

- **Server Administration** (6 years)
- **Amazon Web Services** (4 years)
  - IAM
  - Route53
  - Secrets & Certificate Manager
  - EC2, ELB, EFS
  - RDS & ElastiCache
  - S3 & CloudFront
  - Lambda
  - ECR
  - SQS & SNS
  - SES
  - MediaConvert
  - VPC
  - Event Bridge

University of Toledo
Business Management / Toledo, OH / 2010 to 2013

References

Cris Myers
Relation: My replacement at CorpClean and user of the Time Tracking, Inventory & Inspection software.
Phone: (419) 764-9312
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Wes Comer
Relation: Employee & co-worker at Collected. Wes did video editing and production.
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Austin Bauman
Relation: Co-owner of Collected and brother.
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