Matthew Elder

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Summary

Experienced Developer; Software Architect

Career Highlights

- Architected the stem application

- Implemented a Graph database inside sql for the stem application in addition to implementing graphql as our api backend.

- I have worked on several high domain-rank properties including *bolthouse.com*, *weedmaps.com*, *marijuana.com*, *norml.org*, and *mixxtopia.com*.

- On these properties I was responsible for various aspects such as SEO optimization of content, server architecture design, and software development. I am well versed in Linux, Mac, and Windows systems.

Experience

Software Engineer, Endpoint Escrow Inc.

August 2019 to Present

Endpoint is a company which is disrupting escrow/mortgage by streamlining and automating much of the process.

- Implemented (in production) a strategy to communicate with the existing legacy database while building new features.
- Helping facilitate transition to Microservice Architecture from our monolith
- Collaborated on GraphQL api to service our internal admin needs
- Extended & Created new databases schemas (dynamo) for new services being built

Platform Architect, Whiteblock, Inc.

December 2018 to August 2019

Whiteblock sells professional testing services to blockchain technology companies. I architected the initial platform/cloud side of the system and took a hands on role in designing and implementing new systems and extending existing ones.

- Implemented hashicorps' packer and terraform to automatically provision whiteblock genesis images
- Worked on whiteblock genesis which is a distributed-system/blockchain network emulation/testing automation tool (mainly written in go)
- Co-authored initial GUI prototype based on redux and react
- Wrote initial user-aware api for the GUI frontend in rust; extended it to perform genesis data collection and host/ssh-key management as well as an asymmetrical api token system.
- Wrote initial passwordless authentication/authorization system using a combination of firebase auth and a custom api endpoint
- Provisioned development and production environments using kubernetes in google cloud platform, helped transition to having more than one environment
- Designed prototype using google pubsub and google bigquery to rapidly transform and load network data into bigquery tables
- Built various docker images for microservices
- Built automatic push-to-deploy build pipelines with google cloud build to deploy to kubernetes

Software Architect, BroadVoice, Inc.

May 2018 to December 2018

- Worked on B2B Voice-Over-IP Telephony product frontend written in MobX/ReactJS
- Improved SIP.js functionality in frontend app to receive phone calls and place them
- Built SIP subscription microservice prototype in rust to replace some slow parts of freeswitch
- Assisted in troubleshooting various distributed sql database production issues

Software Architect, LeaseLock, Inc.

November 2017 to April 2018

- Implemented payment processing system in braintree to handle customer transactions
- Implemented Continuous deployment with docker, kubernetes, and aws codebuild.
- Setup best practices for infrastructure-as-code with technologies such as cloudformation, kops, aws codepipeline/codebuild, and of course good ol' s3.
- Refined processes with git for faster release cycles.
- Implemented Apache NiFi for dataflow management with regards to shipping our transactional status updates from braintree to postgres
- Redesigned and created a good new portion of sql database schema to support new product features
- Assisted in a product-engineer role in designing an internal tool to both dynamically change and visualize business logic (it used decision trees) which was serialized in a specialized json format.

Principal Platform Architect, Stem Disintermedia, Inc.

October 2015 to July 2017 - Hollywood, California

Stem helps music collaborators receive royalties in a fair way. I architected the system and wrote much of the prototypal code; we used react/relay/graphql/postgres/rabbitmq as our stack. I also envisioned and wrote some of the prototype code for the open sourced join-monster: "A Query Planning and Batch Data Fetching between GraphQL and SQL". https://github.com/stems/join-monster

President, Lambda Software, Inc.

October 2014 to September 2015 - Los Angeles, California

I formed Lambda Software as a way to seek funding for startup ventures. I also consulted people on scaling their software architectures.

Lead Software Developer, Standard Crypto

November 2013 to September 2014 - Santa Monica, California

Developed backend technology stack to process bitcoin transactions for an online casino in nodejs/insight. Tuned the layout/platform/architecture of *mixxtopia.com* to optimize adsense revenue.

Co-Founder / Software Developer, Dimension Software

January 2013 to October 2013 - Los Angeles, California

We developed a modern, from-scratch bulletin-board webapp in nodejs / livescript. This software aims to be a platform for the business which is a software as a service. Currently in beta: *powerbulletin.com*.

Lead Software Developer, WeedMaps Media (*weedmaps.com*)

January 2011 to December 2012 - Newport Beach, California

I was in charge of scaling the server architecture on *weedmaps.com* from 10K to 100K unique pageviews per day. I was also responsible for rewriting key parts of the site (homepage, region page, dispensary page, and search system) in a new nodejs codebase to replace the old Joomla equivalents.

Senior System Administrator, Bolthouse Farms (*bolthouse.com*)

February 2009 to December 2010 - Bakersfield, California

Implemented many software solutions including an HA VMware cluster, Business Objects BI, an HA SQL Server Cluster, several intrusion detection systems, and some internal applications. I was one of 3 responsible for overseeing 200 servers both physical and virtual at the company datacenter. I also assisted the marketing team from a near seo-disaster when they launched a flash-only website and almost lost several years of hard earned link-juice (their old html content pages). We converted the graphical concept to an html-friendly concept and incorporated old good content.

Lead Software Developer, Jupiter Laboratories, Corp.

January 2007 to January 2009 - San Diego, California

It was extremely customer satisfaction driven. We authored a couple original Ruby on Rails codebases for customers; I was also trusted with tasks such as maintenance of email, web, and dns systems. Overall I was the person people would go to when they ran into a technical challenge.

Skills

Expert

- Javascript / NodeJS
- Babel
- Webpack
- SQL/MySQL/PostgreSQL
- Ruby/Ruby on Rails
- Linux / Mac OS X / BSD Command line
- REST

Fluent

- Rust
- Typescript
- Haskell
- BASH
- Python
- Java
- C/C++
- GraphQL
- ReactJS
- Kubernetes
- Amazon ECS
- Docker
- git/mercurial/version control
- Apache NiFi

Amateur

- Perl
- .NET
- Graph Data Structures

Basics

- Erlang
- Smalltalk, Visual Works, AmberJS
- _____ (your NICHE skill here, I am willing to learn!)

Education

California State University, Computer Science

2005 - 2008

Some upper division coursework completed

Languages

- English (fluent)
- Spanish (basic)