

Matthew Roseman

Education

Case Western Reserve University

Cleveland, OH | May 2017

BA in Computer Science

Minor in Mathematics

Experience

Hubspot

May 2021 - Nov 2022 | Backend Software Engineer | Remote

I worked on the Content Setup team, which was responsible for the transferring of user's blogs, knowledge bases, and site pages from their old sites into their HubSpot CMS.

- **Form Extractor:** Built extractor to scrape forms off customer's website and add to their HubSpot CMS
 - Wrote a heuristic algorithm able to accurately extract human readable labels associated from forms. Worked on most major third party form builders.
- **Web Crawler:** Debugged and worked with a web crawler built on Internet Archive's Heretrix crawler, used throughout HubSpot
- **Debugging:** Debugging system primarily responsible for orchestrating customer's import of content from **99% to 99.99% availability**
- **Work Environment:** Worked remotely in a strongly asynchronous work environment: involved being communicative while taking ownership of the tasks assigned to me
- **On Call:** On Call every three weeks, handling any customer issues, or errors from the code. Including a detailed breakdown shared with the rest of the team

Find.Jobs

May 2018 - April 2020 | Full Stack Software Engineer | Cleveland, OH & Remote

This was a small startup of 10-12 employees. The product was a job board website which had a unique website and domain for every job category, e.g., nursing.jobs, engineering.jobs, ohio.jobs. There was a single pool of jobs, and each website had its own filter.

- **Job Import:** Refactored job import system to handle **~2-3 million** jobs daily in **~1 hour**
 - Included downloading, normalizing multiple data formats, inferring missing fields, and storing jobs in SQL and Elasticsearch
- **Job Filtering:** Added a filtering system to the job boards search
 - Feature parity with Indeed's job filtering
 - Involved optimized Elasticsearch queries hitting **~10-20 million jobs** in less than a **2-3 seconds**, even in deep pagination
 - Built to be optimized for SEO discoverability
 - Same filtering system was used to dynamically build sitemaps
- **Web Crawler:** Built web crawler tailored to premium customers' smaller job boards
 - Built with Python Scrapy
 - Built to be configurable to the point that adding new customer's websites took **~1 day of work** with no code changes

Keyfactor

May 2015–Aug 2015, May 2016–Aug 2016 | Software Engineering Intern | Independence, OH

Medium sized company of ~50 people. Product was an app that helped large companies manage their own site's certificates used for security purposes.

- Worked on general web development features on the frontend and backend, including modifications to a large SQL database
 - Worked in ASP.NET with C#
 - Work also involved some cursory Cryptography knowledge
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Skills

Languages

- Python (6 years)
- Javascript (6 years)
 - ES6+
 - Node.js
- Java (2 years)
- Ruby
- Go

Databases

- SQL
- Elasticsearch
- MongoDB
- Redis

Frameworks/Libraries

- Django (3 years)
- Flask (2 years)
- Scrappy
- Heretrix
- Rabbitpy/Pika
- SQLAlchemy
- React (2 years)
- JQuery
- Bootstrap
- Selenium
- Webpack
- Babel

Infra

- Docker (2 years)
- GCP (2 years)
- Kubernetes