Alex Guerra

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San Antonio, TX

Software Developer
5+ years full stack experience. Pretty nice person. Willing to relocate.

EXPERIENCE

Developer - Heard & Smith (Law Firm)   *February 2014 - Present*

- Reverse engineered the enterprise document management system the firm was licensing, and developed a new backend (Go) and frontend (JS, TS, React) over the old database structure. Project was completed ahead of the eight-month schedule to almost universal praise from end-users, and saved the business a 70k annual licensing fee.

- Worked directly with users to develop complex, keyboard-driven interfaces tailored for specialists. Combined with off-the-shelf OCR and machine learning for document categorization, brought the turnaround time from receiving a document to indexing it from four days to one.

- Iteratively rearchitected the database schema, paying down heaps of technical debt from the complicated enterprise-y structure we inherited. Additionally, brought the whole schema under version control and made spinning up development instances easy; no more testing against prod!

- Aided in migration of all services and documents from on-premise to AWS. Designed safe migration path to move our 85 million files to S3 over the course of a few weeks with zero downtime.

- Instituted modern development practices including version control, testing, reproducible development environments (Vagrant and then Docker), log aggregation (Elasticsearch, Elastic's Beats, Kibana) and metrics tracking (Prometheus, Grafana) for our backend services, error tracking via Sentry for our frontend, automated deployments with Ansible.

OPEN SOURCE

- Currently on the maintainers team for **create-react-app**.
- **wafu:** Rust port of Fuse.js, the fuzzy string searching library, compiled to WebAssembly with nice bindings written in TypeScript.
- **reselect-map:** Reselect-style selectors for memoizing over collections.
- **s3tup:** Declarative configuration management for Amazon S3.

More at **github.com/heyimalex**.

SKILLS

Languages: JavaScript, TypeScript, Go, Rust, SQL (SQL Server, PostgreSQL, MySQL), C, HTML, CSS, Bash, Shell, PowerShell, Python, PHP

Technologies: React, Node.js, Webpack, Docker, Ansible, Elasticsearch, Prometheus, AWS (EC2, IAM, S3, SQS, SES), Redis, Git, Vagrant, Kibana, Grafana, nginx, Electron, Windows, Linux

Misc: Expert with photoshop, capable design skills, casual rock climber

EDUCATION

Studied Computer Engineering, University of Texas at Dallas   *2010 - 2013*