

Ed Halferty

Full-Stack Web Developer

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San Jose, CA

Summary:

I have 10+ years of experience in full-stack web development, using technologies such as: NodeJS, ReactJS, TypeScript, NextJS, RoR, Django, SQL/NoSQL, AWS/Azure. I thrive in fast-paced startup/startup-like environments. I have excellent oral and written communication skills, with the ability to present to both technical and non-technical audiences, and a strong sense of personal ownership and code quality. I have experience mentoring and supervising junior developers.

Experience:

Senior Software Engineer | Align Technology | San Jose, CA | Apr 2023 – Oct 2023

- Created technical designs and scoped out timelines for a rewrite of several core applications (Ruby on Rails and NodeJS), in order to more quickly roll out new features for global customers
- Optimized SQL queries and implemented caching layers to increase RoR app performance.
- Integrated RoR apps with Salesforce and SAP
- Responsible for merging large features without regressions
- Took part in code reviews to prevent issues from affecting payments and monetization apps
- Mentored less experienced developers to ensure a high level of code robustness and adherence to best practices
- Took ownership of a feature to add new categorization that affected a large amount of existing code.
- Maintained communication and cross-functional development with most of the team located geographically disparately from myself
- Created designs for next-generation app versions using NodeJS

Senior Software Engineer | Fortra | remote | Sep 2022 – Feb 2023

- Implemented features which connected multiple email security apps within the Fortra brand and allowed them to share data and a single user interface
- Responsible for prepping and overseeing RDS (Postgres) database upgrades
- Responsible for maintaining Elasticsearch cluster health
- While on-call, responsible for triaging issues and altering affected customers

- Took the initiative to add a UI overlay to the app, only available to developers, which allowed us to switch between different frontend branches in staging, greatly accelerating QA/development

Senior Software Engineer | Cryoport Systems | remote | Feb 2022 – Sep 2022

- Was part of a small team working on an ambitious rewrite of a legacy Java app in Ruby on Rails, including a full database schema restructure
- Pair-programmed daily with other engineers to build out SQL scripts to convert data between the old/new schemas
- Worked closely with QA to identify areas that were out of spec
- Identified areas not covered by spec by working with maintainers of the Java app
- Did black-box testing of original Java app to identify behavior not covered by spec

Senior Software Engineer | HelpSystems | remote | Mar 2021 – Feb 2022

- Initially joined Agari when it was a startup
- Worked with HelpSystems to integrate Agari under new parent company
- Provided recommendations to HelpSystems about how our processes could merge
- Implemented greatly expanded search capabilities in the app, using Elasticsearch query language and our own in-house search DSL
- Prototyped rewrite of frontend from Ember to ReactJS
- Made recommendations that led to avoiding the need to rewrite an app
- Implemented features that allowed users to better administer their accounts on-demand, without customer service assistance

Software Engineer | WorkRamp LMS | San Francisco, CA | Mar 2020 – Jan 2021

- Integrated support for SCORM files (standard training module file format) across parts of the app that didn't have it
- Created a custom calendar widget that allowed Google Calendar-like creation of training events that could span days, skip certain days, repeat according to a complex rule, etc.
- Responsible for building revamped login page using ReactJS
- Responsible for maintaining data integrity and avoiding data duplication in our relatively large database schema

Software Engineer | SiFive | San Mateo, CA | Sep 2018 – Feb 2020

- Implemented a customer-facing ReactJS/Redux/TypeScript/Python/Django/Postgres app
- Created a custom admin app to replace Django admin, which reduced customer service errors by 100%
- Took the initiative to create an internal tool to automate another highly-error-prone manual process, which also saved several hours of developer time per week
- Fixed several N+1 queries to reduce runtime of mission-critical background jobs by 90%.
- Prototyped our next-generation of infrastructure using Kubernetes to encapsulate large 10GB+ containerized Electrical Engineering apps

Software Engineer | Ziff Davis | San Francisco, CA | Jul 2013 – Sep 2018

- Started as an intern and quickly became responsible for maintaining a suite of internal Ruby on Rails CMS apps, first as the sole engineer, and then as part of a small team
- Responsible for maintaining IGN's video CMS, used by editors to tag and transcode hundreds of gigabytes of content daily
- Maintained Java/Scala/MongoDB backend APIs
- Implemented the chat reply alert system using ReactJS
- Fully refactored our custom Wordpress modules to allow them to be Dockerized using modern PHP

Electronics Technician | Pennatronics | Coal Centre, PA | May 2011 – Jul 2013

- Operated PCB assembly machines, conformal coating machines
- Diagnosed and identified manufacturing defects
- Responsible for inventory control and kitting for projects
- Operated in a semi-clean-room ESD-controlled environment
- Completed IPC-A-610 and J-STD-001 training

Education:

Associate Degree in Electrical Engineering Technology | Westmoreland County Community College | Graduated 2009

Skills:

NodeJS/Node.JS, Ruby, Python, Java, Scala, Javascript, TypeScript, PHP, NodeJS, Kotlin, JVM runtime performance tuning, C/C++, C#, .NET Core, Rust, Perl, Golang, BASH, PowerShell

SQL, Relational databases, MySQL, Postgres/PostgreSQL, NoSQL, Non-relational databases, MongoDB, Redis, Memcached, CouchDB, RDS, Elasticsearch, Opensearch, Solr, Lucene

AWS, Azure, GCP, Heroku, Heroku Shield, Elastic Beanstalk, AWS Lambda, Payment gateways, payment processors, content management systems, learning management systems, Identity Management Systems, Okta, Auth0, SAML, SSO, OAuth, OAuth2, Cognito, Cloudflare

Rails, Django, Zend Framework 2, Laravel, CakePHP, Sinatra, Wordpress, Joomla, Spring, SpringMVC, Spring Boot, Jetty, Dropwizard, Glassfish, Apache, Nginx, Hibernate, ORM, Flask

ReactJS, EmberJS, AngularJS, Express, NextJS, NestJS, Jest, Enzyme, Chai, Puppeteer, Selenium, Cucumber, Redux, Redux Saga, Material UI, Bootstrap, Tailwind CSS, SCSS, SASS, LESS, Storybook, InVision, Figma

Hadoop, Spark, Hive, Pig, Kafka, REST, REST APIs, HATEOAS, GraphQL, Apollo, ZeroMQ, RabbitMQ, SQS, SendGrid, MailGun, RPC, gRPC, Protocol Buffers

Hadoop, HDFS, Airflow, Spark, Akka, Scalaz, ELK Stack, Snowflake

Agile, Scrum, Kanban, GSP, GMP

Microservices, microfrontends, distributed systems, TCP/UDP protocol design, concurrency

Docker, Kubernetes, Serverless, Chef, Puppet, Terraform, Hashicorp Vault, DevOps, Linux system administration

Jira, Confluence, Trello, Pivotal Tracker, Slack, Git, Gitflow

Verilog, FPGA, microcontroller, embedded development, Linux kernel development, compiler design

Mentoring, documentation, presentation, architecture, technical leadership, customer-facing roles and customer advocacy, code review, unit testing, integration testing, CI/CD pipelines, Github Actions, TravisCI, Jenkins, CircleCI, GemFury, Red Hat Quay