

Arin Houck

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Self-motivated engineer and entrepreneur with 10+ years experience as a full-stack developer using mostly Ruby on Rails, React, PostgreSQL, Elasticsearch, & Amazon Web Services.

Experience

Knowde (Remote), Senior Software Engineer

06/2023 – Present

- Building B2B software to organize product data for the largest chemical companies in the industry leveraging GraphQL and Ruby on Rails.
- Built a query intent service against a semantically complex chemical taxonomy to power our agent system by translating natural language questions into structured searches and filters
- Created a data change management approval and auditing system to track changes to our ontology data and to support data governance in our workflows
- Benchmarked and tuned hybrid search queries to support data normalization on LLM extraction flows from document data being ingested into dynamic schemas
- Advising our product and design initiatives in grooming sessions to deliver on our enterprise client needs efficiently

HomeLight (Remote), Staff Software Engineer

12/2022 – 04/2023

- Mentoring mid to senior level engineers on technical approaches, technologies, patterns, and processes
- Created an IaC (Infra-as-code) pipeline using Terraform to efficiently create AWS resources for 7 environments
- Improved service boundaries and team ownership by using Packwerk within fast-paced growing organization
- Setup Kafka cluster in AWS MSK and migrated from legacy Heroku add-on cluster
- Created various bots / tooling to reduce pull request merge time, improve code ownership, code quality, & production monitoring

HomeLight (Remote), Senior Full-Stack Engineer

12/2019 – 12/2022

- Built an Elasticsearch index to store about 2 million documents which received update events from 20+ SQL tables that could be used to provide users with near realtime search experience and under 100ms response times
- Developed an automated user tasking system which listened on change events from various database tables
- Built an eSign integration with DocuSign to send out consumer facing signing sessions from application data
- Developed a distributed event system to stream and store app level interactions using TimescaleDB & Kafka which had peak traffic of around 1,000 events / second
- Created a property, city, state, & zip search service using Elasticsearch from MLS data

Billfire (Scottsdale, AZ), Software Developer

01/2018 – 12/2019

- Developed on serverless architecture using AWS services running NodeJS to interface with React applications.
- Created a batch job that generated a fixed-width NACHA bank file which transacted over a \$100M a day
- Analyzed payment history data to track anomalies and worked customer support tickets to diagnose critical bugs
- Built a payment customer portal using ReactJS to manage payment methods and integrated with Chase Bank API for payment processing
- Led a small team of developers to maintain our primary billing app and broke down product roadmaps to well defined sprint work by removing uncertainty in implementation details
- Created an internal React app to streamline deployment process and automated release notes
- Built E2E prototypes for demos using AWS Gateway Lambda & React for Click2Pay service

Software Ops (Scottsdale, AZ), Software Developer

04/2017 – 01/2018

- Playing a diverse role in multiple projects such as backend, front-end, and mobile (iOS and Android)
- Prototyped an iOS app to communicate with BLE devices to open a gate
- Optimized Rails applications to scale by cleaning up code for N+1's and optimizing data joins
- Built a push notification service from a Rails application to ping a mobile phone to report geo-location

Basebox Software (Scottsdale, AZ), Full Stack Developer

08/2016 – 04/2017

- Designed and developed a entity resource planning application E2E with Ruby on Rails & EmberJS
- Developed faceted search and keyword search using Elasticsearch and Ruby for product catalog
- Took ownership of code quality – unit, integration, and automated acceptance tests

Gap Inc. (San Francisco, CA), Software Engineering Intern

06/2016 – 08/2016

- Improved testing automation and design of shopping bag coupon flow using Angular and Java
- Designed E2E application using Spring framework & EmberJS app to help stakeholders visualize product data for shipment route across US/Mexico border.

Basebox Software (Scottsdale, AZ), Full Stack Developer

08/2014 – 06/2016

Skills & Abilities

- **Languages:** Ruby, Python, JavaScript, SQL, HTML, CSS, Swift, Java, Kotlin

- **Technologies:** Ruby on Rails, PostgreSQL, MySQL, ElasticSearch, Apache Solr, GraphQL, TimescaleDb, Redis, Kafka, React, NodeJS, AWS, Infrastructure as Code (Terraform), EmberJS, AWS Lambda, AWS CloudFront, AWS MSK, AWS EventBridge, AWS SQS, & more
- **Other:** Scaling background web & worker services, Prompt Engineering, Name Entity Recognition, Performance testing, Benchmarking / Evaluating search solutions, Application tracing, Application monitoring, E2E Development, Unit / Integration / Acceptance Testing, Web scraping, & more

Education

Arizona State University – Tempe, AZ
Bachelors of Computer Science

2013 – 2017

Startups / Projects

ConstructWork / EWA Ticket

arinhouck.com/projects/ewaticket

Created an MVP in 2019 to digitize change orders or extra work tickets in the construction industry with Ruby on Rails, Postgres, & React.

Zinnect

arinhouck.com/projects/zinnect

Created an MVP in Rails and iOS app in 2014-2016 and assisted in building our user base to 5,000 students from ASU.

Gradebuildr

arinhouck.com/projects/gradebuildr

Built an MVP in 2015 to increase productivity in keeping track of academic curriculums using Rails and EmberJS.

About Me

I have a passion for building whether it is prototyping software, modifying my truck camper, or building cool furniture in my woodworking shop. I love to get in the outdoors through mountain biking, off-roading, camping, kayaking, gardening, and swimming.