

# Hassan Al-Rawi

## Principal Engineer

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### SUMMARY

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Principal engineer with 10+ years building and shipping production software across logistics, oil & gas, fintech, and insurance. Currently leading a modernization effort at Bradford Airport Logistics. Track record of leading cross-functional teams of 4–6 engineers, architecting real-time data-streaming systems, and turning complex business workflows into scalable products. Named inventor on a patent that drove **\$1M+ in first-year revenue**, shipped the official **NCAA Elite 8 iOS app**, and led development of a home-repair SaaS platform now serving 500+ customers.

### CORE COMPETENCIES

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**Technical:** Distributed Systems · Real-Time Data Streaming · Cloud Architecture (AWS/Azure/GCP) · API Design (REST/gRPC/GraphQL) · System Architecture

**Leadership:** Team Leadership & Mentorship · Cross-Functional Collaboration · Product & Project Management · Code & Design Reviews · Stakeholder Communication

### PROFESSIONAL EXPERIENCE

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#### Bradford Airport Logistics — Houston, TX

Principal Engineer · Sep 2025 – Present

- Leading a team of engineers modernizing legacy business applications, migrating from ColdFusion to a React, React Native, and NestJS stack on AWS provisioned with Terraform.
- Established end-to-end observability across services using Sentry and Grafana, improving incident visibility and time-to-resolution.
- Own GitOps and DevOps operations, standardizing CI/CD and infrastructure-as-code practices across the engineering team.
- Built a multi-agent AI pipeline (powered by Claude) that automates the path from Jira ticket to code generation, code review, and deployment — accelerating delivery and standardizing code quality across the team.

#### EOG Resources — Houston, TX (Onsite)

Lead Full Stack Developer · Sep 2024 – Aug 2025

- Led a cross-functional team of six developers delivering Oil & Gas data products, owning workflows, processes, and project execution end to end.
- Architected multiple products across the company and established enterprise standards for process-building services adopted across teams.
- Designed and implemented real-time data streaming and visualization solutions for Oil & Gas operations.
- Built client-facing applications with React, Redux, Redux Saga, Material UI, WebSockets, GraphQL, TypeScript, and OpenAPI generators.
- Streamlined developer workflows across teams, reducing friction in the build-and-ship cycle.

#### Upstart — Houston, TX (Remote)

Senior Full Stack Developer · Jul 2022 – Mar 2024

- Mentored a cross-functional team of six engineers building Upstart's upcoming mortgage products.
- Designed, built, and maintained backend services communicating over gRPC, Kafka, and REST.
- Prototyped enterprise solutions to simplify complex business workflows using orchestration engines (Camunda, Temporal).
- Built and deployed backend services to AWS and OpenShift using infrastructure-as-code.
- Developed an encryption library for Python and Kotlin backed by AWS KMS, plus AWS Lambda functions (Python) to automate KMS key rotation.
- Designed data streaming and visualization solutions for mortgage products.
- Built client-facing apps with Next.js, React, TypeScript, Material UI, and RESTful APIs.

#### Progressive Insurance — Cleveland, OH

Full Stack Developer Consultant · Jan 2019 – Jul 2022

- Partnered with executive leadership to deliver a homeowner-services SaaS platform connecting customers with affordable repair professionals — **now serving 500+ customers at \$2.5K average spend**.
- Named inventor on a patent for the platform, contributing to **\$1M+ in first-year revenue**.
- Managed and mentored a 4-developer cross-functional team across multiple scalable, consumer-facing SaaS products.
- Translated business requirements into technical solutions, selecting best-fit technology components with the team.
- Designed and deployed public REST endpoints that let end-users manage and update multiple policies through the Progressive web app, improving customer-portal UX.
- Led design and code reviews, driving performance improvements and process standards.
- Built client-facing apps with React, Next.js, TypeScript, and Material UI.

## **Progressive Insurance — Cleveland, OH**

**IT Apps Developer Lead** · Oct 2017 – Jan 2019

- Led a team building new consumer features for progressive.com, serving millions of customers.
- Designed and implemented features using Angular, ASP.NET, C#, Node.js, Kubernetes, Go, AWS, Splunk, and Azure DevOps.
- Planned the product roadmap for features impacting millions of users and mentored developers on career growth.
- Collaborated across teams and time zones to ensure quality delivery; resolved complex production issues.
- Built front-end applications serving all progressive.com customers using React and Angular with TypeScript.

## **Progressive Insurance — Cleveland, OH**

**IT Apps Developer, Senior** · Jan 2015 – Oct 2017

- Upgraded Progressive's internal applications for IE11 compatibility using C#, ASP.NET, jQuery, CSS, and HTML.
- Modernized the business engine and rules for Progressive's commercial products using XML, C#, and ASP.NET.

## **Gannon University — Erie, PA**

**iOS Application Developer** · Jan 2014 – Jan 2015

- Gathered requirements, designed, built, and shipped the official **NCAA Elite 8 iOS app** to the Apple App Store.

## **TECHNICAL SKILLS**

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**Languages:** JavaScript, TypeScript, C#, Go, Python, Java, Kotlin, SQL

**Frontend:** React, React Native, Redux, Angular, Next.js, Material UI, HTML/CSS, jQuery

**Backend:** Node.js, NestJS, ASP.NET, FastAPI, Spring Boot, REST, gRPC, GraphQL

**Data & Streaming:** Kafka, RabbitMQ, Data Streaming, Snowflake, MemSQL, Redis, SQL/NoSQL

**Cloud & DevOps:** AWS, Azure, GCP, Docker, Terraform, OpenShift, Kubernetes, GitOps, CI/CD

**Observability:** Sentry, Grafana, DataDog, Splunk

**AI:** Claude, Multi-Agent Workflows, AI-Assisted Code Generation & Review

**Integrations:** Twilio, PayPal

## **EDUCATION**

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**Gannon University** — Erie, PA — M.S., Computer Software Engineering · May 2014

**Applied Sciences University** — Amman, Jordan — B.S., Civil Engineering · May 2009