Casey Rodgers

Senior Software Developer — IoT Backend / Cloud Infrastructure / Full-Stack

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SUMMARY

Senior software developer with 25+ years building production systems, with deep roots in IoT backend platforms and AWS cloud infrastructure. Lead developer on data-collection pipelines, real-time notification systems, LoRaWAN and mesh network infrastructure, and the cross-platform apps that install and manage the sensor fleet. Comfortable owning a system end to end — protocol on the wire through database schema through customer-facing UI — and adapting the stack as the product changes.

CORE SKILLS

Languages: Java (25y), Python (10y+), TypeScript / JavaScript / Node.js (10y+), C / C++ (10y+), Go (1y)

Cloud / AWS: SQS, SES, Lambda (Java/Python/Node), DynamoDB, AppSync (GraphQL), RDS / Aurora PostgreSQL, ECS, EC2, IoT Core, Bedrock

IoT: LoRaWAN, mesh networking, MQTT, TCP gateway protocols, MicroPython on bare-metal MCUs, UART-level system programming

Data: PostgreSQL, MySQL, Aurora, DynamoDB, JDBC, schema design for dynamic sensor data

Frontend: Ionic, Angular, Capacitor (native device access), Java Swing

Tooling: Maven, Docker, GraphQL, REST

Systems: Unix/Linux (25y), macOS, Windows, Android, iOS

EXPERIENCE

Sensor Industries **2016–2026**

Contractor (2016–2022), Senior / Lead Developer (2022–2026), IoT

- Lead developer on the Java backend that collects and distributes data from a fleet of 30K+ IoT sensors across 100+ buildings: telemetry funneled through AWS SQS queues, persisted to DynamoDB, and served to UI clients via AppSync (GraphQL) and REST.
- Designed and built a Java gateway listener that terminates incoming TCP IoT packets and pushes them onto SQS for downstream processing.
- Built AWS-based LoRaWAN infrastructure (Node.js Lambdas) supporting multiple sensor types on a shared ingestion path.
- Designed and implemented a real-time event monitoring and notification system delivering client communications across email, SMS, app push, and escalation via phone message.
- Designed the production SQL schema for dynamically typed IoT sensor data.
- Lead developer on the sensor-installation app (Ionic/Angular + Capacitor for scanner/camera), used by installers at multi-tenant properties such as Wyndham Resorts and by individuals for residential self-installs.
- Stood up a full Sensor Industries test environment in Docker for repeatable local and CI testing.

Odyssey Industries **2021–2023**

Lead Developer, IoT

- Lead developer on backend systems capturing and persisting IoT device data for tracking water usage across large, geographically dispersed water basins, replacing manual site-by-site level checks.

Catchup Math, Inc. **2014–Present**

Developer (2014–2020), Owner (2020–Present), Education

- Online remedial-math platform delivering step-by-step programs keyed to standardized testing. Ionic/Angular frontend, Java REST backend, MySQL persistence.
- Developer under prior ownership through 2020; acquired the company in 2020 and continue to own and drive product design and deployment.

Envenergy **2010–2014**

Lead Developer, HVAC / Embedded

- Startup building an embedded device that bridged large proprietary HVAC systems (e.g. Trane) to a single standardized interface, removing the need for vendor-specific integrations.
- Lead developer of the Configuration Tool — a Java Swing application that provisioned the device over UDP and provided a scriptable automation environment (e.g. temperature-threshold on/off rules).
- Company secured a contract with Trane to bundle the device with their systems.

HR Horizons / Alpine Software **2000–2005**

Lead Developer, HR

- Built and maintained HR software tools deployed to Fortune 500 companies: MS Access front end backed by a Java REST stack on PostgreSQL.

U.S. Air Force **2000–2004**

Programmer, Strategic Planning — Vandenberg AFB

- Sergeant, 1st Strategic Division. Built strategic-planning tools in C/C++ and trained staff on computing best practices.

EDUCATION / SERVICE

U.S. Air Force — Sergeant, strategic planning (2000–2004)

Associate of Science, Computer Science — Allan Hancock College / Community College of the Air Force (CCAF), 2003