

# Omar Sulehria

<https://omarsulehria.com>

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Full stack software engineer with over 10 years of professional software engineering experience. Advocates best software development practices such as domain-driven design, test driven development, and continuous delivery. Passionate and adept in leading teams, growing other software engineers, and bringing sustainable products to users.

## Recent Professional Work Experiences

### **(May 2021 - Current) Staff Software Engineer: Handshake**

- Enforced mandatory schema validation for asynchronous, domain-driven events between services. Written in Ruby with Google Pub/Sub, using the existing and agreed upon JSON Schema as the schema format.
- Scaled out the transactional outbox pattern by introducing automatic table partitioning to all outbox tables, allowing more events to be sent without overloading the database over time. Written in Ruby, backed by Cloud SQL for PostgreSQL, pg\_partman for table partitioning, and pg\_cron to automate said partitioning.
- Designed and implemented an event stream that sends event data from applications and activities into a data warehouse, with strong schema guarantees. Built for Ruby and Go (Golang) services, backed by Protocol Buffers, Google Pub/Sub, Google Dataflow, and Google BigQuery.
- Developed a new microservice that intercepts requests from a service proxy and provides a server-side session token in response. Written in Go, backed by Envoy Proxy.

### **(April 2017 - May 2021) Lead Developer Consultant: ThoughtWorks**

- Migrated CI/CD pipelines for six microservices at a Big 4 tech company from a custom, inflexible tool to Jenkins in order to have more granular control over deployments.
- Introduced the concept of reusable, complex, and independently deployable web components (microfrontends) to a Big 4 tech company's internal product suite. Two kinds of microfrontends were deployed, a comment component and a feedback component. Written with React and Webpack.
- Presented a proof of concept to scale user-controlled authorization across an entire product suite in a SaaS organization. Written with Go, Apache Cassandra, and Open Policy Agent (OPA).
- Lead a distributed team in Bangalore, India to build and deliver a modern customer experience on the web for a US grocer. Written with JavaScript, React, and Spring Boot.
- Scaled a data validation service to handle data sets in the order of terabytes for a Big 4 tech company. Also developed and maintained a UI to build business rules for said validation. Written with Ember.js, Apache Spark, Java, and Scala.
- Coached an inexperienced team on best practices of software development while building a data engineering platform for a retail analytics company. Written with Java, Spring Boot, Python, and Apache Airflow.

### **(May 2012 - April 2017) Software Engineer: Rally Software/CA Technologies**

- Assisted in scaling up the core backend of the application from 10 to 17 Java Virtual Machine node instances.
- Lead a project in enforcing our application to display consistent time zone information in all pages which greatly eased users' pain in creating work items.
- Built multiple reusable React components such as alerts, modals, and grid cutlines in our component library for other engineering teams to consume.

## Education

University of Colorado at Boulder BS in Computer Science / BA in Japanese (Dec 2012)