

OMIE HOLLEY

AI Solutions Architect | Staff-Level Full-Stack Engineer

Houston, TX | 404-576-3956 | mail@omieholley.com | omieholley.com

PROFESSIONAL SUMMARY

Solutions Architect and Staff-Level Full-Stack Engineer with experience architecting and delivering enterprise platforms, cloud-native systems, and production AI solutions. Deep expertise across React, TypeScript/Node.js, Java/Spring, Python, PostgreSQL, AWS, serverless, distributed systems, and event-driven architectures, including AWS Bedrock, Lex, Comprehend, and Transcribe. Proven record leading greenfield platform development, enterprise modernization, AI platforms, cloud infrastructure, data architecture, and product delivery from discovery through production.

TECHNICAL SKILLS

Languages: TypeScript, Java, JavaScript, Python, SQL

Frontend: React, Next.js, Remix, Angular, AngularJS, Tailwind CSS, HTML/CSS, Flutter, React Native, Design Systems, Component Libraries, D3.js, Recharts, Webpack Module Federation

Backend & APIs: Node.js, Spring Boot, Spring Framework, NestJS, Express, Fastify, GraphQL, REST APIs, Spring Batch

AI & NLP: AWS Bedrock, AWS Lex, AWS Comprehend, AWS Transcribe, Conversational AI, LLM Integration & Orchestration, Batch Inference, Prompt Engineering, OpenRouter, LLM-as-Judge Evaluations

Data: PostgreSQL, MySQL, SQL Server, Oracle, MongoDB, DynamoDB, Redis, Databricks, BigQuery, Prisma ORM, Drizzle ORM

Cloud & DevOps: AWS Lambda, ECS, ECR, Fargate, EventBridge, SNS/SQS, S3, VPC, DMS, IAM, CDK, CloudFormation, Google Cloud Platform, Pub/Sub, Dataflow, Datastore, App Engine, Docker, Terraform, CI/CD, Jenkins

Architecture: Enterprise Architecture, Solution Architecture, System Design, Data Modeling, Database Architecture, Distributed Systems, Event-Driven Architecture, Serverless Architecture, Microservices

Product, UX & Quality: Product Strategy, Product Discovery, Product Management, UI/UX Design, Figma, Wireframing, Accessibility, Agile/Scrum, Datadog, Dynatrace, Amplitude, Playwright, Cypress, Jest, Vitest

PROFESSIONAL EXPERIENCE

Creospan

Jul 2024 - Present

Solutions Architect - AI & Platform

Remote

- Architected and delivered production conversational AI across web and voice, integrating AWS Lex, Bedrock, Java/Spring, React, and TypeScript with enterprise reservation and account systems to automate customer-service journeys; contributed to double-digit improvements in CSAT and AI deflection.
- Designed an enterprise LLM-powered call analytics and batch-inference platform using AWS Bedrock, Lambda, S3, Databricks, Terraform, Python, and TypeScript for transcript sanitization, classification, summarization, analytics, and secure PII/non-PII processing at scale.
- Led architecture improvements across distributed customer-facing applications, hardening multi-token authentication, observability, and federated frontend architecture while building internal developer tooling; reduced member authentication failures by 34% and reduced implementation estimates by 4+ days on average.
- Delivered React and TypeScript self-service modification experiences with feature flags, analytics, pricing transparency, and reusable UI infrastructure; contributed to a 30%+ reduction in related customer-service calls.
- Defined enterprise AI architecture, governance, and engineering standards spanning Terraform, CloudFormation, AWS infrastructure, vendor evaluation, PCI/PII boundaries, SDLC, and cross-channel analytics in partnership with security, DevOps, product, and risk teams.

The Version 2

Jan 2024 - Jun 2024

Founding Engineer

Remote

- Served as founding engineer for a greenfield ad-tech platform, defining product architecture, technical strategy, and engineering standards while building with TypeScript, React (Remix), PostgreSQL, Prisma ORM, and Tailwind CSS.
- Architected the PostgreSQL and Prisma ORM data model and synchronization strategy for complex work-in-progress campaign editing, reliable state management, and integration lifecycle workflows.
- Designed a reusable React component library and design system, establishing scalable frontend patterns, accessibility standards, shared UI conventions, and Vitest testing practices.
- Designed and delivered a Google Display & Video 360 (DV360) integration in TypeScript, enabling reliable campaign creation, synchronization, and lifecycle management through enterprise advertising APIs.

iCreate.Fashion

Jan 2023 - Jan 2024

System Architect

Remote

- Owned product strategy, UX, architecture, and engineering for a digital tech-pack SaaS; interviewed designers, defined personas and roadmap, and designed the end-to-end experience in Figma before implementing it with TypeScript, React (Remix), Tailwind CSS, PostgreSQL, and Prisma ORM.
- Rebuilt an undocumented proof of concept into a production-ready platform, implementing 95%+ of the full-stack application and translating live-user feedback into specifications and production software.

- Architected a complete AWS CDK Infrastructure-as-Code solution: multi-environment VPCs, containerized deployments with ECS, ECR, Docker, CodePipeline, CodeBuild, and EC2, and automated CI/CD replacing manual deployments.
- Re-architected the PostgreSQL/MySQL data model to Third Normal Form (3NF), executed zero-data-loss migrations with AWS DMS, and designed scalable ETL processes that preserved data integrity.
- Produced architecture documentation in IcePanel, planned phased scalability and zero-downtime deployments, remediated cloud security vulnerabilities, and established Docker-based local development environments.

Liquidware

Jan 2021 - Jan 2023

Senior Full-Stack Software Engineer

- Served as sole frontend engineer for a greenfield enterprise cybersecurity administration dashboard, building with Angular, RxJS, and Tailwind CSS to support interactive device monitoring, anomaly detection, and drill-down analytics.
- Led multi-phase modernization of a legacy Apache Wicket (Java) monolith, designing a modern Angular frontend and collaborating on a distributed Java, Spring, Apache Kafka, and Apache Karaf OSGi backend architecture.
- Designed enterprise UI/UX workflows in Figma and established frontend quality standards for accessibility, usability, and consistent product experiences.
- Developed backend services and data integrations using Java, Spring, and SQL Server, supporting the platform transition to a modern service-oriented architecture.

Photology

Mar 2019 - Jan 2021

Founding Engineer

- Architected and built the initial SaaS platform for photography scheduling, fleet management, ordering, and fulfillment using TypeScript, React, Node.js, PostgreSQL, and Docker; served as sole engineer during the company's first year.
- Designed the database and information architecture, establishing a scalable data model that supported multiple business-model evolutions without major architectural rewrites.
- Developed the customer portal, vendor-management platform, and React Native (Expo) mobile application for field photographers, owning frontend architecture, UX, and end-to-end delivery informed by customer feedback.
- Led product planning alongside engineering, defining roadmaps, epics, sprint priorities, and feature specifications while translating business goals into scalable technical architecture.

Daugherty Business Solutions

Jul 2017 - Oct 2018

Software Engineer III

- Identified a 20-store RFID loss-prevention proof of concept incurring approximately \$119K/month in Google Cloud costs; redesigned event processing and the RFID false-positive detection algorithm to reduce cost by ~99% to approximately \$1.3K/month (about \$1.4M annualized savings) while preparing the solution for production scale.
- Architected and developed a real-time loss-prevention platform using Angular, RxJS, Java, Spring Boot, Google Cloud Pub/Sub, Dataflow, BigQuery, Datastore, and App Engine, delivering dashboards for RFID events, inventory movement, and suspected theft across retail locations.
- Led greenfield systems integrating RFID, facial recognition, and camera analytics with enterprise retail applications and in-store hardware; mentored teammates, drove architecture, and removed delivery blockers that kept the team weeks ahead of schedule.
- Produced a 17-page market analysis and ROI study projecting \$500-700M in client value, informing product strategy and investment decisions for enterprise loss-prevention initiatives.

The Home Depot

May 2016 - Jul 2017

Senior Full-Stack Software Engineer

- Diagnosed and resolved a critical validation and parsing defect in a high-volume Java/Spring Batch logistics system that was silently corrupting shipment data, preventing estimated losses of more than \$10M per day.
- Served as technical lead across multiple supply-chain applications, building internal tools with AngularJS, Angular, jQuery, Java, Spring Framework, Oracle SQL, and Gulp and driving frontend modernization from AngularJS 1.2 toward Angular.
- Led engineering delivery for a team of eight during extended leadership absences, managing backlog prioritization, sprint planning, technical direction, and cross-functional coordination while maintaining velocity.
- Improved engineering productivity by automating dependency management, deployments, and build pipelines with Gradle, npm, Bower, Jenkins, and Tomcat Grid; mentored developers and created technical documentation and system diagrams that accelerated onboarding.

EDUCATION

B.S., Information Science & Technology

Jan 2014 - Aug 2016

University of Wisconsin-Milwaukee