

SHUBHAM NAGOTA

Technical Architect & Engineering Leader | Distributed Systems, Cloud Architecture & Applied AI
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PROFESSIONAL SUMMARY

Technical architect and engineering leader with 9+ years of experience designing scalable, secure distributed systems. As AVP of Engineering at TransFi, owns the architecture of a cross-border payments platform processing \$150M+ monthly across 40+ countries, and has delivered a portfolio of AI products: an AI developer platform, an MCP server for client integrations, AI-driven compliance checks and an AI-enabled operations dashboard. Previously Technical Architect at BYJU'S, leading a monolith-to-microservices transformation for 2M+ active users. Translates business goals into architecture, leads technology evaluation and adoption, and mentors engineering teams.

CORE SKILLS

Architecture: System Design, Microservices, RESTful APIs, Event-Driven Architecture, Distributed Systems, Scalability & High Availability, Security Architecture, Architecture Roadmaps

Applied AI: LLM Application Development, AI Agents & Workflow Automation, Model Context Protocol (MCP) Servers, AI-Assisted Code Generation, LLM Guardrails & Data Isolation, AI for Compliance Screening, LLM Observability (Langfuse), AI Adoption Strategy

Technology Leadership: Technology Strategy & Evaluation, Architectural Transformation, Stakeholder & Customer Engagement, Team Mentoring, Cross-Functional Delivery, Incident Management

Cloud & DevOps: AWS (ECS Fargate, ALB, WAF, Athena, AWS Config), Google Cloud Platform, Terraform, Terragrunt, Docker, CI/CD

Languages & Data: JavaScript, TypeScript, Python, SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Redis), Kafka

Analytics & BI: Google BigQuery, AWS Athena, Metabase, Mixpanel

Observability & Security: Datadog (incl. Bits AI, MCP), Sentry, Prometheus, Kibana, Snyk, Rate Limiting, CSP/SRI

PROFESSIONAL EXPERIENCE

TransFi

Dubai, UAE

Cross-border payments company offering payin, payout and stablecoin on/off-ramp infrastructure across 40+ countries.

AVP of Engineering

Oct 2025 - Present

Director of Engineering

Oct 2024 - Sep 2025

AI Products & Automation

- Launched **DisplAI**, an AI developer platform that shortens client integrations by answering support queries, executing TransFi API calls on the developer's behalf, and generating integration code in each client's preferred language.
- Designed **guardrails** across DisplAI and the MCP server that scope responses to TransFi topics only and enforce data isolation, preventing exposure of secrets, credentials or other customers' data.
- Built the **TransFi MCP server**, letting client engineering teams and their AI agents integrate TransFi APIs directly from their own tools and systems.
- Cut partner API discovery **from ~1 week to 2 hours** with an AI workflow that reads partner docs and PDFs, generates integration-specific questions for the partner, and runs end-to-end sandbox API flows automatically.
- Built **intelligent dynamic routing** that sends each transaction to the best-fit partner in real time based on processing speed, partner downtime and balance availability, improving payout reliability and speed.
- Reduced wrongful payout rejections by adding an **AI name-check review** for beneficiary name mismatches.
- Built an **AI-enabled admin dashboard** with natural-language "ask anything" queries, daily order and transaction summaries, and detection of stuck transactions with recommended next actions for operations.
- Embedded AI in engineering and security operations: investigated attacks with **Datadog Bits AI**, found codebase vulnerabilities by pairing the **Datadog MCP** with GitHub repositories, and led a 12-week AI tooling rollout (Cursor, Claude Code, CodeRabbit, Snyk) with shared agent skills.

Platform Architecture & Leadership

- Own the architecture of a payments platform that grew from **\$20M to \$150M+ in monthly volume** across 40+ countries and **250+ payment methods**, leading 6 direct reports and overseeing QA, security and DevOps across 7 regions.

- Architected a unified payin/payout **RESTful API platform** and payment routing layer that abstracts local rails and **stablecoin infrastructure** behind one integration, serving FX, Ramp and Gaming business models.
- Eliminated a recurring **~10-second outage on every ECS Fargate deployment** by redesigning the release path with ALB connection draining, graceful shutdown and tuned health thresholds for zero-downtime releases.
- Designed a normalized **partner database** that replaced a 23-sheet spreadsheet as the single source of truth for payment partners, channels and corridor coverage.
- Work directly with customers on calls alongside their business, product and engineering teams to understand requirements, shape solutions and drive integrations to go-live.
- Increased **conversion rate by 35%** by instrumenting full-funnel analytics in Mixpanel and removing checkout bottlenecks.

Reason Labs

Dubai, UAE

Consumer cybersecurity company building antivirus and online security products.

Senior Software Engineer

Jul 2023 – Oct 2024

- Cut **application load time by 80%** and **bundle size by 50%** by re-architecting the Online Security web app from React.js to Next.js and Tailwind CSS, delivered in one week.
- Reduced **data discrepancies by 70%** by designing a synchronization mechanism between the browser extension and the web UI.
- Enabled faster A/B testing by decoupling in-browser notifications from the Chrome extension, and reduced antivirus **build size by 30%**.
- Built internal developer tools that made product testing faster and more reliable for engineering and QA.

BYJU'S

Bangalore, India

Global ed-tech company offering online learning programs.

Technical Architect

Jan 2020 – Jun 2023

- Led the **architectural transformation of a monolith into microservices** with a Kafka event-driven pipeline on AWS ECS, improving **performance by 40%**, cutting **processing time by 60%** and supporting **3x concurrent orders**.
- Designed a low-latency, highly available student microservice in Node.js serving **2M+ active users**.
- Reduced **production incidents by 70%** by architecting APM monitoring and alerting with Datadog, Prometheus and Kibana.
- Secured **\$110K+ in monthly AWS savings** by auditing underutilized infrastructure and executing a cost-optimization program.
- Cut social-media escalation **turnaround from 1 day to 4 hours** by designing an escalation management system; reduced **production errors by 50%** through TDD standards and mentored 4 engineers.

Impact Analytics

Bangalore, India

AI-powered retail automation products for enterprise planning and forecasting.

Senior Software Engineer

May 2019 – Jan 2020

- Built SKU ordering analytics dashboards feeding **AI-driven demand forecasting** for a **250+ store** retail enterprise (Node.js, React, MongoDB, Python, GCP).
- Reduced **development time by 30%** through reusable modules, and support **navigation time by 30%** with a command palette.

General Electric

Bangalore, India

Software Engineer

Oct 2018 – May 2019

- Defined product OKRs for a **50+ person** organization and reduced developer **onboarding time by 20%** by introducing the Sequelize ORM.

Motorola Solutions

Bangalore, India

Software Engineer

Jul 2017 – Oct 2018

- Saved **30% of manual effort** with Python data pipelines, and cut **deployment time by 20%** by containerizing and automating deployments with Docker.

EDUCATION

Bachelor of Engineering, Computer Science

2013 – 2017

Mahakal Institute of Technology, Ujjain, India