

SWAYAM BAJPAI

📞 +91-8707705446 ✉️ swayambajpai666@gmail.com 🔗 LinkedIn 🐙 GitHub

Profile Summary

- Software Development Engineer at **Fidelity Investments** (Plynk Invest) with **2.5+ years** building **fintech and edtech** products end to end: **Angular and React/Next.js** web apps, **Angular mobile apps on Google Play**, and **Java/Spring Boot and Go microservices on AWS EKS**. Focused on low-latency APIs, fast accessible UIs and resilient systems.

Professional Experience

Fidelity Investments

September 2025 – Present

Software Development Engineer (Plynk Invest – FCAT)

Bengaluru, Karnataka

- Built **brokerage & IRA Account Opening** in the ground-up **Angular** rebuild of the Plynk app: **20+ lazy-loaded steps** in a **60+ library Nx monorepo**, **zoneless Signals** and **Signal Store**, **WCAG 2.2**, **3 languages**
- Built an **account-summary API** that calls **7 back-office systems in parallel** (CompletableFuture), so dashboard latency is set by the **slowest call instead of the sum of 7**, returning partial data when one system is down
- Designed the **Accounts BFF: 34 versioned endpoints across 17 controllers** (balances, positions, transactions, IRA, tax documents, beneficiaries), a **JSON rule engine** classifying raw activity codes, and **HTTP 207 partial-success** batch APIs
- Built the **account-opening orchestration service: Socure KYC** fraud screening (red/yellow/green), duplicate-account prevention, compensating restrictions on partial failure, and **IRSA-secured AWS SQS** document pipeline with an Oracle dead-letter fallback
- Cut latency on market-data and content services with **cache-aside** layers (7 caches), **OAuth2 token caching** that removes an auth round-trip per request, **3-attempt retries**, a **50-connection WebClient pool** and **1-second DB statement timeouts** to fail fast
- Built **SSL Kafka consumers** for account restrictions and notifications, and **real-time WebSocket quotes** with per-symbol rendering and a **10 s debounced unsubscribe** that removes reconnect traffic when users switch tabs
- Shipped through **Jenkins** (SonarQube, CodeQL, Veracode) and **Terraform blue/green deploys on AWS EKS** across **4 environments and 2 regions**, **2–5 pod autoscaling**, hardened non-root containers, **Datadog APM** with PII scrubbing

Marine Edge

March 2024 – August 2025

Software Development Engineer (Front-End & Mobile)

Bengaluru, Karnataka

- Built the **Next.js / React** platform for Merchant Navy exam prep: **140+ routes**, **110+ components**, **4 role-based portals**, with a **TanStack Query** data layer (**22 hook modules**) and Zustand, React Hook Form + Zod, Tailwind/shadcn
- Cut wasted load time by **never retrying 4xx errors**, which had left failed requests on a spinner for **~7 s**, and added **AbortController timeouts** so a stalled proxy no longer hangs the UI; one batched call replaced **N per-lecture calls**
- Built and released the **Angular mobile app on Google Play: 49 screens, 13 NgRx stores, 160+ unit specs, 13 releases**; offline lecture/PDF downloads, push notifications, OTP auto-read and an in-app PDF renderer
- Found and fixed a **native-bridge bug** where **0 of 49** exam attempt IDs survived (18-digit IDs lost precision), taking exam answer saves from **0% to 100%**
- Built **exam integrity**: fullscreen lockdown, **7 tracked violation types**, auto-termination after **3 strikes** and escalating bans, plus **per-route screenshot blocking** on videos, materials, exams and live classes
- Shipped **live classes on self-hosted LiveKit (WebRTC)**, replacing Jitsi, with host controls for mics and cameras; **direct-to-storage presigned uploads** up to **2 GB** (multipart above 100 MB) keep files off the API servers
- Made lecture progress **server-authoritative**: saves every **5 s** only on **≥5%** movement, auto-completes at **90%**, and never moves backward across devices; migrated hosting from **AWS to Oracle Cloud**

Projects

GraphEcomX | *Node.js, GraphQL, Kafka, MongoDB, Docker*

- 3 microservices (User, Product, Order) behind a **GraphQL gateway**, communicating through **Kafka events**, each containerized and Jest-tested

TorrentEdge | *Node.js, React, Kafka, WebSockets, Nginx*

- Distributed BitTorrent client streaming live download progress over **Kafka + WebSockets**, behind **Nginx load balancing**

Technical Skills

Languages: Java, TypeScript, JavaScript, Go, SQL, Python, HTML5, CSS3/SCSS

Front-End & Mobile: Angular (Signals, NgRx), React, Next.js, TanStack Query, Zustand, Tailwind, Android, WCAG

Back-End: Spring Boot, Node.js, Express, REST, GraphQL, WebSockets, WebRTC (LiveKit), Microservices

Cloud & DevOps: AWS (EKS, S3, SQS), Oracle Cloud, Docker, Kubernetes, Terraform, Jenkins, Datadog

Data & Testing: Oracle, PostgreSQL, MongoDB, Kafka, Jest, Vitest, Playwright, JUnit, Mockito

Education

BMS Institute of Technology and Management

Bengaluru, Karnataka

B.E. in Information Science and Engineering

2021 – 2025