Aakash Devkar

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Summary

Full-Stack Software Engineer skilled in Java, Spring Boot and React, with two internships shipping production systems in NestJS, Django, FastAPI and Next.js. Experienced in REST APIs, Spring Security and JWT auth, microservices, MySQL, PostgreSQL, Docker and AWS, with multi-agent AI and RAG features.

Education

N. K. Orchid College of Engineering and Technology — Solapur, India
B.Tech in Computer Science and Engineering; CGPA: 7.72/10 — *Aug 2022 – Aug 2026*

Experience

AI Engineer Intern — Jun 2026 – Aug 2026
Genesis Technologies — *Pune, India*

- Built the Second Brain multi-agent system for AuraSync, an AI-powered HR SaaS platform on Django microservices: orchestrator with tiered memory, explorer agent, RAG pipeline and a Redis idempotency layer.
- Shipped ATS backend features: a Core Values module and job-level email routing via Gmail/Outlook OAuth.
- Hardened the webcam/mic assessment pipeline with production fixes; performed SEO optimization.

Software Developer Intern — Feb 2026 – Jun 2026
Apprely Technologies — *Pune, India*

- Led an 8-member team to rebuild the Solapur Municipal Corporation complaints platform, migrating legacy systems to NestJS, Next.js, Tailwind CSS, shadcn/ui and React-Admin (Material UI).
- Built RESTful APIs with TypeORM and PostgreSQL for OTP/JWT auth, RBAC and file uploads.
- Implemented SLA tracking with holiday-aware due dates and nightly cron jobs that auto-generate fines.
- Deployed on an on-premises server with Docker, Nginx reverse proxy, wildcard SSL/TLS and custom domain.

Projects

AI Background Removal SaaS | GitHub | *Java, Spring Boot, Spring Security, MySQL, React* — Oct 2026

- Built a credit-based SaaS with a Spring Boot (Java 21) REST API on Spring Data JPA and MySQL, and a React 19/Vite/Tailwind frontend; integrated the Clipdrop AI API through a declarative OpenFeign multipart client.
- Secured APIs with a stateless Spring Security filter chain and a custom JWT filter that verifies Clerk RS256 tokens against JWKS-derived RSA public keys, cached per key ID with a 1-hour TTL.
- Synced users via HMAC-SHA256-signed Clerk webhooks (create/update/delete) and enforced per-user credit checks and deduction, with 5 starter credits on signup.

ForexEdge – Real-Time Trading Platform | GitHub | *NestJS, Next.js, Kafka, AWS* — May 2026 – Jul 2026

- Architected 5 NestJS microservices in an Nx monorepo communicating over Kafka, streaming ticks for 28 currency pairs into a TimescaleDB hypertable with 6 continuous aggregates.
- Built an order engine with a 7-state FSM, 5 pre-trade validation gates and transactional post-commit Kafka events; secured with Argon2id JWT, Redis refresh-token rotation and RBAC.
- Built a Next.js dashboard (Redux Toolkit, Socket.io), a BullMQ backtesting engine and an MCP research agent; deployed on AWS via CI/CD.

AgriFlow – Agricultural Marketplace | GitHub | *React, TypeScript, Node.js, AWS* — Mar 2025 – Jun 2025

- Built a 4-role marketplace (farmer, buyer, agent, admin) with a React/TypeScript web app, React Native mobile app, Node.js/Express REST API, Razorpay payments and a Flask XGBoost pricing service.
- Load-tested with k6 and added server-side pagination: admin orders API p95 latency 20.5 s → 974 ms, throughput 4.9 → 81.5 req/s, errors 38.7% → 0%.
- Cut ML prediction latency 4x (739 → 184 ms) via model caching; deployed on AWS (EC2, RDS, S3, CloudFront).

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, SQL, C
Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, OpenFeign, Node.js, Express.js, NestJS, Django, FastAPI, Flask, REST APIs, WebSockets, Microservices, Kafka, BullMQ
Frontend: React.js, Next.js, Redux Toolkit, React Native, Tailwind CSS, shadcn/ui, Material UI, HTML5, CSS3
Databases: MySQL, PostgreSQL, MongoDB, TimescaleDB, Redis, SQLite, TypeORM, Prisma, Sequelize
Cloud & DevOps: AWS (EC2, ECS Fargate, RDS, S3, CloudFront, CloudWatch), Docker, Maven, Terraform, GitHub Actions
AI & Agentic: LangChain, LangGraph, RAG, Multi-Agent Systems, MCP, Amazon Bedrock, Qdrant, ChromaDB

Achievements & Certifications

Patent Published: Roadwatch – AI-driven monitoring analytics of transportation networks
Certifications: AWS Certified Cloud Practitioner; ML Specialization (Coursera); SQL (HackerRank)