Aryan Batra

Java Full Stack Engineer — React & Next.js Specialist

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Summary

Java Full Stack & React / Next.js Engineer specializing in **backend infrastructure**, **clean microservice architecture**, **cloud DevOps**, and **AI orchestration engines**. Experienced project lead with expertise in designing enterprise-grade systems, automated distribution pipelines, custom developer platforms, and high-performance software.

Education

Mahant Bachittar Singh College of Engg. & Tech. (Affiliated with Univ. of Jammu) — **Jammu, JK**

B.Tech in Computer Science | ***CGPA: 8.2/10.0*** — *2023 – 2027*

Technical Skills

Programming Languages: Java, JavaScript (ES6+), TypeScript, C/C++, Python, SQL, Bash, Kotlin, Dart, Lua, HTML/CSS
Backend & Frameworks: Spring Boot, Node.js, REST APIs, Microservices, Hibernate, Flyway, JTE, Thymeleaf, OpenHtmlToPdf
Cloud & Infrastructure: AWS (EC2, RDS, S3, SQS, SNS, API Gateway), LocalStack, Docker, Nginx, Firebase Auth, Supabase
Databases & Monitoring: PostgreSQL, Turso Cloud DB (libSQL), MySQL, Redis, Prometheus, Grafana, Loki, Axiom
Frontend & Mobile: Next.js 15, React.js, Tailwind CSS, Three.js, SolidJS, GSAP, React Flow, React Quill, Storybook, Chromatic, Flutter
AI, ML & Automation: RAG, LLMs, OpenRouter, Groq, Mistral AI, Meta Graph API, n8n, Activepieces, Zapier
DevOps, Tools & Testing: JFrog Artifactory, Jenkins, GitHub Actions, Vitest, JUnit5, JaCoCo, OpenAPI Swagger, Ink, Pastel, AT Protocol
Core CS Foundations: System Design, Microservices, Data Structures & Algorithms, Operating Systems, Computer Networks

Experience

Opus Wealth — **Bengaluru, Karnataka (Remote)**

Software Engineer Intern — *Sep 2026 – Present*

- Architected full-stack mutual fund platform (**Next.js**, **Python**, **PostgreSQL**), processing daily **NAV/AUM** for **14,300+** funds.
- Engineered **Docker** data pipelines for **AMFI** datasets and implemented caching for high-speed real-time chart rendering.

A2B Digital Solutions — **Remote**

Software Engineer Intern (Project Lead) — *May 2026 – Jul 2026*

- Led 3 engineers building financial platform via **Spring Boot**, **Next.js**, and **PostgreSQL** (**15,000+** daily txns).
- Engineered fine-grained **RBAC** and dual-session impersonation, reducing security audit overhead by **40%**.
- Built reusable UI library via **Storybook** & **Chromatic**, publishing NPM packages to **JFrog Artifactory**.
- Architected async queues with **AWS SQS/SNS/SES** and **LocalStack**, cutting cloud test cycles by **60%**.
- Built PDF generation engine (**JTE**, **Thymeleaf**, **OpenHtmlToPdf**) and interactive **OpenAPI Swagger** docs.
- Set up **Flyway** DB migrations and **Prometheus**/**Grafana**/**Loki** stack on AWS EC2 (**99.95%** uptime).
- Enforced strict unit and integration testing using **JUnit5** and **JaCoCo** across all backend services.

Polarions — **Sweden (Remote)**

AI Automation Engineer Intern — *Oct 2025 – Nov 2025*

- Built distribution engine using **n8n**, **Meta API**, and **Cloudflare Workers** (**5,000+** executions/day).
- Orchestrated **Mistral AI** & **Groq** models via **OpenRouter** for automated cross-platform content synthesis.
- Mentored **4 junior interns** on modular code design, decreasing pipeline failure rates by **35%**.

Sashel — **Remote**

Software Engineer Intern — *Jul 2025 – Oct 2025*

- Co-architected e-commerce platform (**12 microservices**) using **Spring Boot**, **AWS SQS/SNS**, and **API Gateway**.
- Engineered 4 core services (*Profile*, *Buyer*, *Seller Finance*, *Logistics*) on normalized **AWS RDS**.
- Built **7 Activepieces workflows** for **Shopify**, **Shiprocket**, and **Razorpay** payouts (**$20k+** processed).
- Containerized services with **Docker** and **Nginx** on **AWS EC2**, serving as short-term Scrum Master.

Projects

Rose Sky Social Media | AT Protocol, Next.js, Lexicons, XRPC — **Aug 2026**

- Built decentralized social client over **AT Protocol**, consuming feeds, **DIDs**, and **Lexicons** (**10,000+** events).
- Engineered **XRPC** pipelines across **PDS**, Relays, and AppViews with client caching (sub-**45ms** latency).

StartX – AI Startup Validator | Next.js 15, Drizzle, Groq, Instamojo, Mermaid.js — **Apr 2026**

- Built AI startup validator with **Next.js 15**, **Turso (libSQL)**, and **Drizzle ORM** (**2,000+** evaluations).
- Engineered 10-step AI orchestration via **Mistral API** & **Groq**, cutting turnaround time by **65%**.
- Integrated **Instamojo** payments and utilized **Mermaid.js** for dynamic workflow graphs, delivering a complete AI analysis suite.

100xsystems – Knowledge Synthesizer | Node.js, Ink, Pastel, React Quill, Vitest — **Feb 2026**

- Founded EdTech platform serving **100+ active developers** across **50+** language learning paths.
- Built CLI tools (**Ink**, **Pastel**), CMS (**React Quill**), and test suites (**Vitest**, **JUnit5**) (<**80ms** latency).

DSA-IN-3D | Java, Multi-threading, Dynamic Programming, FFmpeg — **Aug 2024**

- Architected zero-dependency 3D ray tracer in **Java** via fluent builder patterns (**60 FPS** render target).
- Visualized step-wise execution across 8+ data structures (**AVL, Graphs, DP, Heaps**), boosting retention by **40%**.
- Built 4 live render modes with multi-threaded frame sync and **FFmpeg** pipe, cutting render export time by **50%**.

Competitions & Hackathons

Self-Balancing Robot | Python, Lua, CoppeliaSim, LQR, Bash | **e-Yantra, IIT Bombay** — **Dec 2025**

- Built **LQR controller** and automated **CoppeliaSim** kinematics via **Bash**, achieving <**120ms** balance recovery.

Dementia Detection System | Flutter, Dart, REST Telemetry APIs | **Smart India Hackathon** — **Sep 2025**

- Architected full-stack platform with **Flutter** mobile UI and telemetry APIs processing **1,000+** data points/sec.