Aryan Rajesh Yewale

Full Stack Software Developer
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Professional Summary

Computer Science student (B.Tech, LPU, expected May 2027) building **event-driven microservices**, **real-time systems** and CI-tested backends with Node.js, PostgreSQL, Docker and AWS; experienced in the software development life cycle (SDLC) and Agile methodologies.

Education

Lovely Professional University | Phagwara, Punjab — *Sep 2023 – Expected May 2027*
Bachelor of Technology – Computer Science and Engineering; CGPA: 8.0/10

Dharampeth M.P. Deo Memorial Science College | Nagpur, Maharashtra — *Apr 2021 – May 2022*
Intermediate (Science); Percentage: 79%

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, Go, C++, C, SQL, PHP **Frontend**: React.js, Next.js, HTML5, CSS3
Backend & Distributed Systems: Node.js, Express.js, FastAPI, REST APIs, WebSockets, Microservices, Event-Driven Architecture, Apache Kafka, Redis, JWT Authentication, System Design
Databases: PostgreSQL, MySQL, MongoDB, Query Optimization, Indexing, Stored Procedures
Testing & Quality: Unit Testing, API Testing, Integration Testing, E2E Testing, Regression Testing, Test Automation, Jest, Supertest, Playwright, Selenium, CI Quality Gates
AI Integration: LLM API Integration, RAG, pgvector, Embeddings, Prompt Engineering
Cloud & DevOps: Cloud Computing (AWS EC2, EKS, S3, ECR, CloudFront), Docker, Kubernetes, Jenkins (CI/CD), Terraform, Linux, Git
Fundamentals: Data Structures & Algorithms, Operating Systems, Computer Networks, SDLC, Agile Methodologies

Projects

StockX – Real-Time Stock Trading Simulation Platform — *Aug 2025 – Oct 2026*
Tech Stack: Node.js, TypeScript, Redis Pub/Sub, Apache Kafka, PostgreSQL, WebSockets, Next.js, NextAuth, Docker, Microservices

- Architected an **event-driven microservices** backend of 6 services (API Gateway, Matcher, Execution, Realtime, Price, Stock), decoupling order intake, matching and settlement via **Redis** queues and **Apache Kafka** event streaming for **distributed processing**.
- Implemented symbol-sharded in-memory order books with deterministic price-time priority matching, supporting limit and market orders, partial fills, and atomic **PostgreSQL** settlement with idempotent trade execution.
- Streamed live order-book and trade events via **Redis Pub/Sub and WebSockets**; built a Next.js dashboard with NextAuth, Zod-validated inputs, real-time OHLCV charts and portfolio P&L tracking.
- Validated with **82 unit and invariant tests**, incl. 1,000 randomised concurrent orders (quantity and balance conservation).
- Load-tested with a custom Node.js script (50 users, 30 s, local Docker, single Matcher): approx. 35 orders/sec sustained average incl. cold start, end to end through Gateway, Redis, Matcher and PostgreSQL; 0 errors on valid orders.

CollabDraw – Real-Time Collaborative Whiteboard — *Jan 2026 – Apr 2026*
Tech Stack: Node.js, PostgreSQL, WebSockets, Jest, Supertest, Playwright, Selenium, Jenkins, Docker, Kubernetes, AWS EKS

- Engineered a real-time whiteboard with **REST APIs and WebSockets**, secure authentication and room-ownership authorization on **PostgreSQL**; delivered across the **SDLC** in **Agile/Scrum** sprints.
- Wrote **161 automated tests** (51 API, 37 unit, 28 WebSocket integration, 45 E2E) with Jest, Supertest and Playwright, enforced as a **Jenkins CI gate** that blocks any build with a failing test.
- Automated **cross-browser E2E** regression tests with **Playwright and Selenium** on Chromium, Firefox and Mobile Chrome.
- Established a **CI/CD pipeline** in Jenkins (lint, test gate, Docker builds, ECR push, rolling deploys to **Kubernetes** on EKS) with Terraform infrastructure and Prometheus + Grafana monitoring.

LinkUp – Real-Time Video Conferencing Platform — *Aug 2025 – Nov 2025*
Tech Stack: React.js, Node.js, MongoDB, WebRTC, Socket.IO, Redis, JWT, Docker, AWS EC2, S3, CloudFront, Nginx, PM2

- Engineered a **real-time video conferencing platform** using **WebRTC, Socket.IO and React.js** with multi-participant calls, screen sharing, live in-call chat and peer-to-peer media streaming.
- Built a full-stack app with **Node.js, Express, MongoDB and JWT authentication**, containerised with **Docker** on **AWS EC2** behind Nginx, with S3 + CloudFront for frontend delivery.
- Architected a scaling roadmap using a **Redis pub/sub** adapter for distributed Socket.IO state and AWS ALB sticky sessions for WebSocket load balancing, addressing the single-instance bottleneck.
- Load-tested up to 6 participants per call and 50+ Socket.IO rooms on one instance, validating mesh limits and identifying the SFU migration path.

Work Experience

Aloha Peptides – Full Stack Developer Intern — *Apr 2025 – Jun 2025*
PHP, WordPress, MySQL, HTML, CSS

- Built full-stack features for a production e-commerce site serving **500+ monthly active users**, including a complete syringe products section, using PHP, WordPress and MySQL.
- Added **indexes** to SKU search, product catalogue filtering and order-date reporting queries, cutting a product-listing query from approx. 420 ms to 65 ms; automated low-stock and daily-sales reports with **stored procedures**, reducing weekly reporting from approx. 2 hours to 20 minutes.

Certifications and Achievements

- Solved **800+ DSA problems**; **Global Rank 1874** of 30k+ in LeetCode Weekly Contest 395; Internal SIH Finalist (college level).
- Oracle Cloud Infrastructure 2025 AI Foundations Associate; Oracle Data Platform 2025 Foundations Associate.