VIJAY GUTTULA

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EXPERIENCE

Full Stack Web Developer Intern- Lex Fintech **January to March 2026**

- **Tools and Technologies**: Next.js, Nest.js, Drizzle Kit, MySQL, Git, GitHub, Redis, BullMQ, Nest CRON Jobs, Google OAuth
- Developed core components of a personalized e-commerce recommendation engine that ranked products by user engagement signals-including views, add-to-cart actions, notification requests, and purchases-and locality.
- Implemented Redis-backed recommendation-score buffering with BullMQ and scheduled jobs, batching database updates every 30 minutes to reduce repeated individual writes.
- Investigated backend logs to identify redundant search requests during partial typing; implemented a 300 ms debounce to reduce unnecessary endpoint calls and observed improved request behaviour.
- Collaborated with QA to validate functionality, incorporated testing feedback, and provided technical progress updates to the senior reporting manager.

EDUCATION

Vidya Jyothi Institute of Technology (Information Technology) - Expected May 2027 **Hyderabad, India**
8.78 CGPA

Ratna Junior College (12th Standard) **Hyderabad, India**
9.01 CGPA

PROJECTS

ArenaMatch: Distributed Multiplayer Matchmaking Platform ***(Java based Gaming Platform)***

- **Tools and Technologies**: Java 21, Spring Boot, PostgreSQL, Redis, RabbitMQ, Docker
- Designed a **2-service microservices architecture** using Java and Spring Boot for skill-based matchmaking and game session management.
- Architected Redis-backed matchmaking queues with concurrency-control mechanisms to prevent duplicate player assignments across concurrent requests.
- Designed **3 event-driven communication stages** using RabbitMQ, covering match discovery, session creation, and failure recovery.
- Defined automated testing, Docker-based containerization, and observability strategies covering metrics, distributed tracing, and service health monitoring.

Sketch Brains LMS: Campus Recruitment Training Platform ***(Full Stack Project)***

- **Tools and Technologies**: Next.js, TypeScript, PostgreSQL, Cron Jobs
- Led hands-on development of a production LMS, coordinating 4-6 contributors and supporting deployment across 2 colleges, 2 cohorts, and 134 students.
- Used GitHub Issues/Projects to assign and track tasks, manage milestones, and coordinate release delivery.
- Developed role-based workflows for Admin, TPO, Mentor, Facilitator, Faculty, and Student roles, alongside course, cohort, assessment, attendance, leaderboard, and skill-tracking modules.
- Investigated production issues, coordinated fixes with relevant contributors, and followed through on restoring expected functionality.
- Implemented GitHub Actions CI/CD pipelines for automated linting, Prettier formatting checks, and build validation.

SKILLS

Languages: Java, TypeScript, JavaScript, Python, Dart, C
Frameworks: Spring Boot, React.js, Next.js, Node.js, NestJS, Flutter, FastAPI, Flask
Databases & Messaging: PostgreSQL, MySQL, MongoDB, SQLite, Firebase, Redis, RabbitMQ
DevOps & Cloud: GCP, AWS, Docker, Kubernetes, Jenkins, Terraform, CI/CD, Git, GitHub, GitHub Actions
Concepts & Tools: Object-Oriented Programming (OOP), Data Structures & Algorithms, Microservices, Distributed Systems, REST APIs, Multithreading, Concurrency, BullMQ

AWARDS & ACCOMPLISHMENTS

- Secured 131st out of 16,398 in the Junior Coding Olympiad at Newton School of Technology.
- SIH'25 Grand Finalist and 3x Hackathon Winner
- Silver Winner in Algo Git Squad'25
- Top 10 Finalist - Megathon'25 in IIIT
- Ranked 14 out of 1361 contributors in Social Summer of Code'25

CERTIFICATIONS

- Associate Cloud Engineer Certification - Google Cloud
- Oracle Cloud Infrastructure 2025 Foundations Associate **(1Z0-1085-25)**