

OM GHANTE

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SUMMARY

Software Engineer experienced in building scalable backend systems, REST APIs, and distributed applications using Java, Spring Boot, and modern backend technologies. Strong understanding of system design, event-driven architectures, asynchronous processing, and database-driven application development. Experienced in developing reliable and scalable software solutions with a focus on performance, maintainability, and engineering best practices. Open-source contributor to Node.js and Electron.

EXPERIENCE

- **Software Engineer Intern | Curlshell Private Limited, Pune - (Dec 25 - April 26)**
Collaborated with the product team to streamline WhatsApp API workflows, including campaign creation, template approval, and webhook pipelines. Django, Celery, Redis, System Design.
- **Freelancer | Synfuse, Kolhapur - (Jan 23 - Dec 24)**
Delivered multiple web and Android solutions while leading a small team to ensure quality and timely project execution. Reactjs, Nodejs, React Native, Android, Firebase, php, MySQL.
- **Software Engineer Intern | Anthaathi Private Limited, Kolhapur - (Aug 22 - Oct 22)**
Developed a MERN-based web app and React Native mobile app, created email templates, and documented a CRM SaaS platform. React Native, HTML, CSS, Email Templates

SKILLS

- **Core Programming Languages** : Java, Python, JavaScript, Typescript, C, C++
- **Backend & Frameworks** : Spring Boot, Django, FastAPI, Node.js, REST APIs, gRPC
- **Frontend** : React.js, Next.js, React Native, Android, Flutter
- **Databases & Caching** : PostgreSQL, MySQL, Redis, Firebase
- **System & Distributed Systems** : System Design, Distributed Systems, Event-Driven Architecture
- **DevOps & Tools** : Git, Linux, CI/CD, Celery, Docker, Agile Development
- **AI Tech** : RAG, Agentic AI, Prompt Engineering

PROJECTS

- **Cartera – Goal-based multi-wallet platform for managing savings, expenses, and shared goals.** [Github](#)
I built a Spring Boot backend enabling users to create and manage dedicated wallets, shared family wallets, delegated wallets, and spending controls. Designed and implemented REST APIs, role-based access control, fund transfer workflows, and automated fund allocation using Spring Data JPA and PostgreSQL. – Java, Spring Boot, Spring Data JPA, PostgreSQL, Flutter, Docker, Razorpay API, Google Sign-In
- **Meta Pilot – Web solution to run marketing on WhatsApp using Graph APIs.** [Github](#)
Provides tools to create, schedule, and manage campaigns with template creation and approval workflows. Includes RAG-based system for instant, context-aware automated replies across messaging channels. - whatsapp graph API, Nextjs, Django, postgresQL, redis, celery.
- **Paper – Agentic AI ecosystem for orchestrating modular AI agents with tool calling, memory, automation.** [Github](#)
Built multi-agent coordination system enabling context sharing, task delegation, and real-time decision workflows across services. Designed scalable backend architecture for agent communication, state management, and asynchronous processing. – Python, FastAPI, LLM APIs, Redis, PostgreSQL, Celery, Docker, WebSockets

CORE SYSTEM COMPONENTS AND ALGORITHMS

- **CASCADE – Distributed inventory reconciliation engine built for Amazon-scale e-commerce conflict resolution.** [Github](#)
I built this to prevent multiple warehouses from overselling the same item during concurrent orders, with automatic adaptation when services go down. I made it handle millions of merges per second ensuring every sale is counted exactly once and stock never goes negative. – Java, Maven, Vector Clocks, CRDTs, StampedLock.
- **CORTEX – Adaptive retry storm prevention engine built for Amazon-scale distributed systems.** [Github](#)
I built this to stop failing services from getting crushed by their own retry traffic, using one unified score from five health signals instead of four mechanisms fighting each other. I made it shed low-priority traffic during outages and protect critical requests like payments, improving success rates from 8% to 67%. – Java, Sliding Windows, Circuit Breakers, Token Buckets.

OPEN SOURCE

- **nodejs/node** – Fixed a build configuration bug in the Node.js by removing a stray debug string causing incorrect macro concatenation (PR [#62683](#)), Resolved a C++ deprecation warning in `MaybeStackBuffer` by constraining string methods to valid character types, improving compiler compatibility (PR [#62507](#)).
- **electron/electron** – Fixed a crash in Electron by adding readiness checks to contentTracing APIs, preventing segmentation faults when called before app initialization (PR [#50920](#)), Resolved remote debugging issues by enabling bundled DevTools frontend usage instead of unreliable CDN URLs, ensuring stable debugging across Electron builds (PR [#51236](#)).

EDUCATION

- Bachelor of Computer Science (Hons) | Inti International University, Malaysia. - (Jul 25 - Dec 25)
- B.Tech, Artificial Intelligence & Machine Learning | Sanjay Ghodawat University - (Jul 23 - Jun 26)
- Diploma in Computer Engineering | D. Y. Patil College of Engineering & Technology - (Jul 21 - Jun 23)
- XII (HSC) | Private High School and Jr. College - (Feb 21)

POSITIONS OF RESPONSIBILITY

- Chairperson | Geeks For Geeks - (May 25 - May 26)
- Event Head | Prabal (National 40-hr Hackathon) | GDG On Campus SGU - (Jan 25 - May 25)
- Organizer | Cubicles Initiative [Dept. AIML] - (Jan 25 - Jun 25)
- Secretary | Google Developer Groups On Campus SGU - (Sep 24 - May 25)