

Aditya Hota

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SUMMARY

Computer Science and Engineering undergraduate with a specializing in full-stack development, cloud computing, and distributed systems. Interned at Batoi Systems, co-authored research on Kubernetes autoscaling for stateful workloads, and holds a published indian patent. Also leads web development initiatives at GDG on campus. Winner and grand finalist in multiple national and state-level hackathons.

EXPERIENCE

Summer Intern

May 2025 - June 2025

Batoi Systems, Bhubaneswar

- Productionized and deployed a full-stack application built during the winning Srusti Tech Hack Hackathon 2025 submission, integrating **Batoi Insight** workflows into core platform services.
- Implemented survey configuration, report generation, and response management features while collaborating with the Batoi team through agile sprint cycles.

SKILLS

Languages: TypeScript, JavaScript, Python

Backend & Architecture: Node.js, Express.js, RESTful APIs, WebSockets, Redis, Microservices, LangChain

Cloud & DevOps: Docker, Kubernetes, GitHub Actions (CI/CD), Trivy, Terraform, AWS, GCP, Cloudflare

Database & Tools: PostgreSQL, Prisma ORM, Git, Linux, Vitest (unit testing)

Frontend: HTML, React, Next.js, Tailwind CSS

ACHIEVEMENTS

- **Published Indian Patent:** No. 202631019043 "An Offline First, AI Enabled System for Decentralized Issue Reporting and Immutable Resolution Tracking", patent grant pending.
- **Hackathon Winner (as Team Lead):** Code Relay 2026 (IIT Bhubaneswar), Srusti Tech Hack Hackathon 2025.
- **Grand Finalist & Runner-up (as Team Lead):** Smart India Hackathon (SIH) 2025, AWS AI for Bharat 2026, Founders Renaissance 2025 (IIIT Bhubaneswar).
- **Co-author, 2 Papers** on Kubernetes autoscaling for stateful workloads (1 under review and 1 in preparation for *Future Generation Computer Systems*). Showed that Kubernetes default autoscaler breaks under stateful workloads with **87.5%** over-provisioning, reconnection storms up to **1,400 conn/s**, and permanent session loss. Then built and validated a custom controller that fixed all three with zero connection loss.
- **Project Lead, Web Development** at Google Developer Groups (GDG), C.V. Raman Global University. Leading workshops and web development initiatives on campus (October 2025 - Present).

EDUCATION

C. V. Raman Global University, Bhubaneswar, Odisha, India

July 2023 - July 2027

B.Tech, Computer Science and Engineering

CGPA: 8.33

PROJECTS

Swaraj Desk: Intelligent Civic Operations Platform | GitHub

Tech Stack: Next.js, Bun/Express, PostgreSQL, Prisma, Redis, LangChain, FastAPI, Docker, Kubernetes, WebSockets, GitHub Actions, Trivy, Grafana, Uptime Kuma

- Designed a multi-client civic platform spanning **13 government departments**, with **offline synchronization**, geo-tagging, **20+ language** support, and a live WebSocket-based community feed. Delivered RBAC across 4 role-scoped dashboards, and cross-department automation.
- Integrated a **multi agent AI layer** with bilingual interfaces for full platform navigation and AI-generated governance reports. Including a **6-stage AI pipeline**: validation, auto-categorization (20-sector taxonomy), content moderation, quality scoring, duplicate detection, image validation. With workload-based auto-assignment.
- Engineered a **distributed architecture of 5 microservices** with Redis queues. **Containerized deployment on Kubernetes** with Ingress routing. Implemented DevSecOps practices with GitHub Actions CI/CD, **Trivy security scanning**, and Grafana Loki observability.

BlinkPay: Wallet & Payments Platform | GitHub

Tech Stack: Next.js, Node.js/Express, PostgreSQL, Prisma, Turborepo, Docker, GitHub Actions, Google Cloud Run

- Built cloud-native digital wallet platform supporting **peer-to-peer** and **peer-to-merchant** payments with **OAuth authentication**, webhook-driven settlement, transaction reconciliation, and simulated on-ramp and off-ramp flows.
- Engineered **microservices** for **token-based fund transfers**, balance management, and transaction state tracking, ensuring transactional consistency across workflows. Implemented **GitHub Actions** with a **Turborepo monorepo** architecture and deployed containerized services on **Google Cloud Run** for cost-efficient scalable infrastructure.