Gaurav G

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Education

National Institute of Technology, Puducherry — Puducherry, India
Bachelor of Technology in Computer Science and Engineering — *Aug. 2025 – Present*

Vivekananda CBSE School — Puducherry, India
Higher Secondary Certificate (Class XII, CBSE) | PCM CGPA: 9.4/10 — *July 2022 – May 2024*

Professional Experience

Founding Engineer Intern — Sept. 2026 – Present
Comsync — *Remote*

- Building production voice AI agents for frontier AI teams, architecting real-time conversational pipelines spanning speech-to-text, LLM reasoning, and text-to-speech synthesis
- Designing low-latency streaming architecture to support natural, real-time voice conversations, optimizing turn-taking and response latency across the pipeline
- Collaborating directly with founding team on core product architecture and infrastructure decisions as an early engineering hire

Full Stack Developer Intern | *Internship Certificate* — Apr. 2026 – Jun. 2026
Tynari (Formerly Printeast) — *Remote*

- Designed and developed a full-stack Niche Generator tool enabling sellers to discover 50+ product and market opportunities, directly integrated into the platform's seller dashboard
- Built and deployed a Chrome Extension with AI capabilities connected to platform backend services, reducing manual seller workflows by an estimated 40%
- Architected and implemented the backend database schema for a product catalogue supporting 1000+ SKUs, ensuring a scalable, well-organised structure with optimized query performance

Achievements

National Finalist | Fugacity 2026 ML Hackathon — Aug. 2026
Chemical Engineering Association (ChEA), IIT Kharagpur — *Kharagpur, India*

- Ranked 16th of 374 teams nationwide (Top 20 qualifier) in an industry-sponsored ML hackathon on predictive modeling of a non-isothermal chemical reactor
- Recovered the reactor's governing reaction kinetics (Arrhenius activation energies, thermal coupling coefficients) via nonlinear parameter estimation on a coupled ODE system, in place of a black-box regressor
- Outperformed standard ML baselines (Random Forest, Gradient Boosting, Gaussian Process) by 2–3x on cross-validated RMSE by encoding first-principles reaction engineering directly into the model

Technical Projects

Hatch – MCP Server Generator | *Next.js, TypeScript, Node.js* | Live

- Built a platform that converts any API (GitHub repo, OpenAPI spec, or Postman collection) into a production-ready MCP server through automated endpoint extraction and tool generation
- Engineered an extraction pipeline that parses source code and API specs to identify routes and schemas, with confidence-scored flagging for low-certainty endpoints requiring manual review
- Implemented automated typed tool generation (JSON Schema, HTTP templates, test cases) with an auto-fix test loop that retries failing tool generations
- Shipped one-click versioned deployments to unique subdomains with rollback support, generating ready-to-use configs for Claude Desktop and Cursor

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C, SQL
Web Technologies: HTML, CSS, React.js, Next.js, Node.js, Express.js, REST APIs, JWT Authentication
Frameworks & Libraries: FastAPI, Prisma ORM, Playwright, scikit-learn, AsyncIO
Databases: PostgreSQL, MongoDB, SQLite, Neon Database
Tools & Platforms: Git, GitHub, Postman, Docker, Vercel, Railway, VS Code, CI/CD