Sushil Pandey

Software Engineer, Undergrad

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Work Experience

Google Summer of Code @ OpenAFS — May 2025 – Present
Contributing Developer

- Selected for GSoC 2025 under the Linux Foundation to enhance the OpenAFS Linux kernel module
- Implemented **multi-page folio support** to improve memory performance and I/O efficiency
- Developed testing and benchmarking tools across kernel versions, ensuring compatibility and performance gains

SRM University AP — June 2024 – April 2025
Research Intern

- Collaborated with Dr. Manikandan to create **Korosuke**, a novel framework that reimagines **security-preserving retrieval** in enterprise systems, earning a **Gold Medal** for research innovation
- Developed **hierarchical security-aware embeddings** that mathematically enforce access control during semantic search, implementing the solution in **Python**
- Pioneered an **adaptive re-ranking mechanism** that optimizes the relevance-security tradeoff through a novel information utility function for enterprise **knowledge systems**

Myraa Technologies — Oct 2023 – Jan 2024
Full Stack Developer (Internship)

- Architected and built a complete healthcare and insurance system (**FlocHealth**) from scratch, developing both frontend and backend components using **Python**-based technologies
- Engineered robust **Python** backend with **Tornado** framework, implementing disease prediction algorithms and personalized insurance policy recommendation engines for the medical sector
- Deployed the full-stack solution on AWS EC2 with **Neo4J** and **MySQL** databases, creating a scalable architecture that successfully served 10,000+ users in the healthcare and insurance industries

Projects

NyxAPI – Mock API Generator — Project Link

- Created **NyxAPI**, a flexible tool that lets developers launch mock APIs instantly
- Developed a real-time endpoint builder using **React** on the frontend and **Python**-based server on the backend, enabling dynamic API generation and updates
- Structured the underlying **PostgreSQL** database to organize API schemas, route configurations, and collaborative access controls efficiently

cUrlBaby – CLI API Suite — Project Link

- Designed a lightweight **Java**-based terminal utility for API testing that replicates core Postman features through a command-line interface, following object-oriented patterns for modular architecture
- Implemented comprehensive **HTTP operation** support (GET, POST, PUT, DELETE) with built-in timeout control, error handling, and a custom **JSON parser** to format API responses clearly in the console
- Created an intuitive workflow that streamlines request management and response visualization

QliQ – Web3 Advertising Network — Project Link

- Built a decentralized ad ecosystem that uses **NFT metadata** to deliver targeted promotions, utilizing **React**, **Tailwind CSS**, and **Express.js**.
- Wrote smart contracts in **Solidity** and integrated with **ThirdWeb**; utilized **IPFS** for distributed content hosting.

Technical Skills

Programming Languages	C, C++, Python, JavaScript
Development Skills	Next.js, Dart, React, FastAPI, Git
Databases	PostgreSQL, MongoDB, MySQL, NoSQL, Redis
Other	Docker, NGINX, GitHub Actions, AWS EC2, AWS Lambda, AWS S3, Cloudflare

Education

SRM University, Andhra Pradesh — Sep 2022 – Jul 2026
B.Tech in Computer Science and Engineering with Specialization in AI & ML
Relevant Coursework: Data Structures, OOP, OS, Networking, Database Management

Leadership & Extracurricular Activities

- **Freelance Developer** – Built multiple applications for various agencies & startups with scalable architectures
- **Co-Lead & Founding Member, Google Developers Group (GDG)** – Organized campus tech events and workshops
- **Hackathon Finalist** – Competed in **HackSRM 4.0**, **Unfold '24**, **Flipkart Grid**, and **Walmart Sparkathon**