

Saijyoti Panda

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EDUCATION

PES University

Bachelor of Technology in Computer Science and Engineering — CGPA: 8.83

Bengaluru, Karnataka

2023 – 2027 (Expected)

EXPERIENCE

Software Developer Intern | 4good.ai

June 2025 - July 2025

- Developed full-stack web applications using **Next.js** and **Tailwind CSS**, integrating dynamic frontend components with a scalable **AWS**-based serverless backend.
- Designed and integrated a **Neo4j** graph database schema to represent digital twin relationships, enabling efficient traversal and contextual insights across user entities.

Project Mentor | HSP Tilde 4.0 Program

July 2025 - August 2025

- Mentored 4+ students in developing an open-source **RAG-powered CLI study assistant** featuring hybrid retrieval (**ChromaDB + BM25**) and LLM integration.
- Oversaw project development, providing feedback on pipeline design decisions such as document chunking, reranking, and context expansion to ensure effective retrieval.

PROJECTS

MemoryMail | MERN, Full-Stack Web

[GitHub]

- Created a digital time capsule web app for future-dated messages using a full MERN stack architecture.
- Implemented secure RESTful APIs with user auth, scheduling logic, and MongoDB storage.

Lexicon: Custom Language Interpreter | Go, Compilers

[GitHub]

- Built a complete lexer, parser, and AST interpreter from scratch with type-safe logic and error handling for a small custom language.

Netids | Python, Systems, Networking

[GitHub]

- Built a network attack and IDS using raw sockets to simulate and detect DDoS, port scanning, and spoofing attacks.

Incremental Lakehouse with CDC | Python, Apache Iceberg, Spark, Kafka

[GitHub]

- Built a CDC-driven incremental lakehouse using Kafka and Spark Structured Streaming, implementing ACID upserts, deletes, and snapshot-based versioning with Apache Iceberg.
- Enabled time travel and incremental snapshot reads to benchmark batch vs incremental queries, demonstrating metadata-driven pruning and storage optimization.

Origin – Custom New Tab Dashboard | HTML, CSS, JavaScript, Chrome Extensions

[GitHub]

- Building a customizable new tab dashboard packaged as an extension with quick-access bookmark cards, sectioned layout, and a terminal-like interface.
- Implementing a daily-resetting to-do list using `localStorage`, enabling persistent offline task management.

TECHNICAL SKILLS

Programming Languages: Python, Go, C/C++, JavaScript, TypeScript, HTML, CSS

Query Languages: SQL

Frameworks & Tools: Next.js, React, Node.js, Tailwind CSS, Svelte, Express

Databases & Cloud: Neo4j, MongoDB, AWS (Lambda, S3, DynamoDB)

Systems & DevOps: Linux, Docker, Git, GitHub, WebRTC, IndexedDB, Tiptap, Wireshark, Cisco Packet Tracer

POSITIONS OF RESPONSIBILITY

Treasurer, ACM PESUECC (2025–26): Managing budgets, sponsorships, and finances for chapter activities. Part of the main organizing team for the flagship hackathon, **Hacknight 7.0**

Finance Head, ACM PESUECC (October 2024): Organized **Hacknight 6.0**, the flagship hackathon, overseeing the budget as the **Head of Finance**.

ACHIEVEMENTS AND ACTIVITIES

- **Prof. MRD Merit Scholarship (Top 5%):** Awarded **twice** for academic excellence.
- **Prof. CNR Rao Merit Scholarship (Top 20%):** Awarded for academic excellence.
- Conducted a **Git and Github Workshop** for **150+ students** and authored a detailed blog as part of HackNight 7.0 prerequisites.
- **Winner, Qiskit Fall Fest 2024:** Recognized for excellence in a **Quantum Computing** event.
- **ACM PESUECC:** Organized **HackNight 6.0 and 7.0**, contributing to finance, budgeting, logistics and coordination for **220+ participants** in each edition. Contributed as a **Maintainer** by managing repositories with curated issues.
- **Maaya 2024:** Volunteered as part of the **Operations team** for the annual college fest with **2000+ attendees**.
- **The Hargila Desk:** Contributed as a **proofreader and technical member** for the student-run magazine on nature and community conservation.