DEV JANGID

COMPUTER SCIENCE ENGINEER | B.TECH CSE (EXPECTED JUNE 2027)

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PROFESSIONAL SUMMARY

Computer Science Engineering undergraduate with hands-on technical experience at Airports Authority of India (AAI) and India Space Lab (ISL). Specialized in high-throughput backend architecture, enterprise network security compliance, low-latency system design, and production-grade multimodal Generative AI / RAG pipelines. Strong foundation in data structures and algorithmic mastery.

TECHNICAL SKILLS

* **Programming Languages:** TypeScript, Python 3, Modern C++, Java, JavaScript (ES6+), SQL (PostgreSQL, MySQL), C, Bash/Shell
* **Full Stack Web Dev:** React 19, Next.js 15, Node.js, Express, Tailwind CSS 4, REST APIs, WebSockets, MongoDB, Vite, Vitest
* **Generative AI & Systems:** Gemini 1.5 Pro, Vertex AI, Multimodal RAG, Vector Embeddings (Pinecone, ChromaDB), LangChain, Agents
* **Core CS & Systems:** Data Structures & Algorithms (DSA), OOP, Operating Systems, Computer Networks & TCP/IP, Linux POSIX
* **Aerospace & Telemetry:** 1U CanSat Architecture, 433 MHz UHF Radio Telemetry, Microcontrollers (ESP32, Arduino), Sensor Fusion
* **DevOps & Security:** Git, GitHub Actions CI/CD, Docker, Google Cloud Platform (GCP), Network Security Compliance, VLANs

PRACTICAL EXPERIENCE & INTERNSHIPS

Airports Authority of India (AAI) -- *Network Security & IT Intern* August 14, 2026 - September 25, 2026 | New Delhi

* Supported Northern Region HQ IT division with network monitoring, diagnostics, and operational troubleshooting for aviation IT systems.
* Assisted with database replication audits, routine server maintenance, and critical administrative infrastructure preservation.
* Diagnosed operational system tickets and verified network security compliance across internal administrative subnets and isolated VLANs.
* Authored technical standard operating procedures (SOPs) adopted by IT personnel to accelerate incident response and operational continuity.

India Space Lab (ISL) -- *Space Systems & CanSat Telemetry Trainee* July 15, 2025 - July 31, 2025 | Faridabad, India

* Engineered 1U CanSat payload architecture, telemetry tracking systems, and aerospace radio communication hardware.
* Programmed embedded microcontrollers in C/C++ to interface barometric pressure, IMU, and temperature sensors via low-latency buses.
* Calibrated 433 MHz UHF radio frequency telemetry downlink transceiver for live telemetry decoding at ground station receiver.
* Analyzed autonomous drone flight navigation protocols, sensor fusion telemetry, and parachute recovery deployment mechanisms.

Google Gen AI Academy -- *Generative AI & Multimodal RAG Scholar* June 2024 (1 Month)

* Completed intensive curriculum in generative AI architectures, Gemini 1.5 Pro APIs, and Google Cloud Vertex AI infrastructure.
* Developed production-grade retrieval-augmented generation (RAG) pipelines incorporating high-dimensional vector embeddings.
* Deployed interactive Python Streamlit prototypes for real-time document reasoning, multimodal synthesis, and context-grounded retrieval.

EDUCATION & CREDENTIALS

Jagannath University -- Bachelor of Technology (B.Tech) in Computer Science & Engineering Expected June 2027
Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Software Engineering, Network Security.

Jiva Public School -- Senior Secondary School Certificate (Class XII - PCM & Computer Science) Completed April 2022
Focus Areas: Physics, Chemistry, Mathematics, Object-Oriented Programming with C++.