

SANJEEV KUMAR

Software Engineering Intern | Backend • Systems • Cloud

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PROFILE

B.Tech Computer Science student graduating in 2028 with hands-on experience building backend and systems software in Java, C++, Go and Python. Built production-style APIs, authentication, repository tooling and CI/test workflows; completed transformer-based research and contributed to open-source infrastructure. Strong foundation in data structures, algorithms, software design, Linux/Unix, databases and cloud-native development.

EDUCATION

B.Tech, Computer Science & Engineering — SRM University AP | Mangalagiri, AP 2024–2028
CGPA: 8.42/10 | Latest SGPA: 8.73 | Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Probability & Statistics

EXPERIENCE

- Faculty Research Intern** — SRM University AP | Mangalagiri, AP Jun 2026 – Jul 2026
- Developed SemBind-Audio, a semantic-aware audio watermarking pipeline using HuBERT/wav2vec2 representations, STFT-based embedding selection and SHA-256 cryptographic binding.
 - Evaluated 2,620 LibriSpeech test-clean recordings, reporting 100% clean payload recovery and 75.37 dB mean SNR with three-fold replica redundancy.
 - Built a modular Python pipeline for representation extraction, semantic fingerprinting, cryptographic binding, embedding/extraction and comparative evaluation; contributed to an IEEE-style manuscript.
- Digital Marketing Intern** — IRHS, SRM University AP | Mangalagiri, AP May 2025 – Jul 2025
- Automated lead-tracking and KPI reporting across three platforms, reducing manual reporting effort by about 40% and improving campaign reporting workflows.

OPEN SOURCE CONTRIBUTIONS

webpack

Merged [PR #20356](#) clarifying npm audit warnings for development-only dependencies; completed CLA/review requirements and rebased the contribution for merge.

Aevor

Merged [PR #103](#) [PR #104](#) [PR #106](#) for pull-request feedback logic/tests and repository run persistence/handlers in a Go backend using Gin, GORM and PostgreSQL.

Kestra

Active contributions: [Terraform Provider PR #308](#) - Terraform 1.14+ list import support for flows/namespaces; [Databricks Plugin PR #290](#) - stateful DBFS polling trigger with recursive traversal, filtering and state management.

PROJECTS

CommitHub — Node.js • Express • React • MongoDB • AWS S3 • JWT • Docker

- Built a Git-inspired collaboration platform with repository management, commits, pull requests, code reviews, branch protection and authentication.
- Implemented REST APIs, repository visibility controls, S3-backed asset storage and owner-gated merge/conflict-resolution workflows.
- Added backend/system test coverage and repository controls across authentication, health, search and branch-protection workflows.

Aevor — Go • Gin • GORM • PostgreSQL • GitHub OAuth/PKCE • JWT • Docker

- Built backend services for GitHub authentication, repository synchronization, webhooks, indexing, background jobs and repository analysis.
- Implemented secure session flows, controlled Git workspaces and modular service endpoints with authentication, rate limiting and tests.
- Added background job execution, repository indexing/analysis workflows and readiness checks for database-backed services.

Wandera — React • Node.js • Express • MongoDB • REST APIs • Cloudinary

- Built and deployed a full-stack travel platform with authentication, CRUD APIs, server-rendered views, multipart uploads and cloud image storage.
- Strengthened input validation, authentication middleware and security headers; organized backend code with modular routes, controllers and models.
- Improved cloud-media lifecycle handling for replaced images and production-style request validation in the Express backend.

TECHNICAL SKILLS

Languages: Java, C++, Python, Go, JavaScript (ES6+), C, Bash, SQL

Backend: Node.js, Express.js, Gin, GORM, REST APIs, JWT, Microservices, MVC

Systems / Cloud: Linux/Unix, Docker, Docker Compose, Kubernetes, Minikube, AWS S3, GitHub Actions, CI/CD, Terraform

Databases: PostgreSQL, MongoDB, MySQL

AI / ML: Hugging Face, Transformers, HuBERT, wav2vec2, AST, scikit-learn, Pandas, Ollama

Engineering: Data Structures & Algorithms, Object-Oriented Design, Software Design, Systems Programming, Git/GitHub, debugging, unit/contract testing, Postman, Jest, technical documentation

Certifications: CS50's Introduction to Programming with Python - Harvard University (2026) • Data Structures & Algorithms with Java - Apna College (2024–2025) • SQL (Intermediate) - HackerRank (2025)