

AYUSH SHARMA

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EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

Bachelor of Technology, Computer Science and Engineering

Sept 2024 – May 2028 (Expected)

CGPA: 8.3/10

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, SQL, Go, JavaScript, C.
- **Technologies & Tools:** Git, Docker, Linux, GitHub Actions, GitLab CI/CD, Pytest, FastAPI, PostgreSQL
- **Core Competencies:** Data Structures & Algorithms, Object-Oriented Programming, Software Design, Backend Engineering, Software Testing, Debugging, REST APIs, Web Services, Distributed Systems, Relational Databases, Complexity Analysis

EXPERIENCE

Open Source Software Contributor | Debian (Debusine) | [20+ Merged Contributions](#)

Jan 2026 – Present

- Engineered configurable HTTP timeout handling across Linux-based **distributed worker services** ([MR !2928](#)) and external requests ([MR !2728](#)), **improving reliability** and preventing blocking operations.
- Improved **backend reliability** and **data integrity** by implementing worker-token access restrictions ([MR !3115](#)), artifact validation ([MR !2773](#)), and category validation controls ([MR !2944](#)), preventing invalid artifact states.
- Enhanced **system observability** and developer experience by surfacing workflow orchestration progress ([MR !2667](#)), exposing aborting-user visibility while avoiding **N+1 queries** ([MR !2678](#)), improving CLI discoverability with backward compatibility ([MR !2689](#)), and clarifying architecture-specific workflow metadata ([MR !2635](#)).
- Developed and tested unit-level changes, debugged issues through maintainer feedback and code reviews, and shipped **production-ready** improvements while preventing regressions.

Open Source Contributor | Jenkins (jenkins.io) | [17+ Merged Pull Requests](#)

Jan 2026 – May 2026

- Improved developer documentation for plugin development, **automated testing**, and infrastructure ([PR #9076](#), [#8792](#), [#8848](#), [#9078](#)), strengthening developer workflows and contributor onboarding.
- Enhanced engineering workflows through **Java 21 migration** guidance ([PR #8788](#)), **Maven workflows** ([PR #8803](#)), IDE configuration ([PR #8977](#), [#8780](#)), and Remote Access API documentation ([PR #8763](#)), improving developer productivity.

PROJECTS

Careers-Engine | Python, GitHub Actions, Discord.py, Pydantic, httpx, Pytest

[Live](#) | [GitHub](#)

- Architected a **modular backend automation platform** with **six decoupled services** for ingestion, normalization, filtering, persistence, and publishing, enabling reliable scheduled workflows for **400+** community members.
- Designed, implemented, tested, and deployed **backend pipelines** with stateful persistence, duplicate-free synchronization, supporting reliable data processing across independent services.
- Built CI/CD automation with **2 scheduled GitHub Actions workflows** and implemented **10+ tests** using Pytest, alongside static analysis with Ruff and MyPy checks, supporting **8** production automation runs per day.

EnerFabric | Intent-Driven Orchestration Platform for DERs | FastAPI, PostgreSQL, MQTT, WebSockets

[GitHub](#)

- Built a **modular backend platform** for real-time DER orchestration, ingesting telemetry and intents over MQTT and exposing coordination decisions through REST APIs and WebSockets.
- Designed the backend with FastAPI and PostgreSQL, implementing persistence for assets, telemetry, intents, policies, and coordination runs, with **deterministic constraint and priority-based coordination**.
- Containerized and deployed the full stack using Docker Compose, integrating the backend, database, MQTT broker, simulator, and Next.js dashboard into a working end-to-end system.

ACHIEVEMENTS

- **National 2nd Runner-Up, IIT Bombay E-Summit i-HACK** ([RepoInsight AI](#))
- Solved **535+ DSA problems** across major coding platforms (**LeetCode Max Rating:** 1553, [HackerRank](#) **5-Star in C++**)
- Founder, ZenYukti: Built and led a **1,300+ member** technical community.
- **Consolation Prize Trophy, SRCAS Hackathon 3.0** - National-level competition with **1,050+ participating teams**.