

Alluri Jeswanth Joel

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EDUCATION

Indian Institute of Information Technology (IIIT) Kottayam

Bachelor of Technology – Computer Science and Engineering

Kerala, India

Nov 2022 – May 2026

Relevant Coursework: Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Databases, Cloud Computing

PROJECTS

Simplify – SaaS RAG Application — GitHub

May 2026

Stack: Next.js, TypeScript, FastAPI, Python, MongoDB Atlas, Pinecone, Supabase, Gemini

- Developed a SaaS RAG platform where users upload documents and receive Gemini-streamed answers with source citations; deployed on Vercel (frontend) and Render (backend).
- Built a document ingestion pipeline covering file validation, Supabase Storage upload, text extraction, overlap chunking, Gemini embedding generation, MongoDB metadata persistence, and Pinecone vector upserts.
- Secured with JWT auth (refresh-token rotation, access-token denylisting) and email OTP verification with rate limiting (3 req/15-min window) and 10-minute expiry via SMTP.

Neural OPS – AI Resume Intelligence Platform — GitHub

June 2026

Stack: FastAPI, Python, PostgreSQL, Redis, Qdrant, Gemini, Celery, MLflow, Docker, Next.js

- Built a hiring platform with semantic candidate search, ATS resume scoring, and a copilot that answers recruiter queries with cited evidence from ingested resume data.
- Designed a hybrid ranking pipeline combining Qdrant vector similarity, skill match scores, and experience signals; all experiments tracked in MLflow with recruiter feedback loops for iterative improvement.
- Implemented multi-tenant RBAC with org-level data isolation, audit logging, and API key management; Celery async workers handle large-scale resume ingestion and embedding generation.

TaskFlow – Employee Task & Incident Management API — GitHub

2025

Stack: Java 17, Spring Boot 3, Spring Security, JWT, PostgreSQL, Docker, GitHub Actions

- Built a REST API with role-based access control (ADMIN/USER), supporting task lifecycle management across 5 status states, 4 priority levels, and 4 task types.
- Implemented stateless JWT auth and a JPA Specification pattern for composable, type-safe dynamic filtering across status, priority, assignee, and keyword fields with validated sort parameters.
- Designed an immutable `TaskHistory` audit trail logging every field-level mutation with actor and timestamp via a `BaseEntity` mixin and Spring Data Auditing applied across all entities.
- Containerized with multi-stage Docker builds; GitHub Actions CI/CD pipeline runs JUnit 5 + Mockito tests and publishes Swagger UI at `/swagger-ui.html` on every push.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, SQL (PostgreSQL, MySQL), R

Web: Next.js, React, Node.js, Express.js, FastAPI, Flask, Spring Boot

Libraries: LangChain, Pandas, NumPy, Scikit-learn, Markdown

Tools: Celery, MLflow, Docker, GitHub Actions

Databases: PostgreSQL, MongoDB Atlas, Redis, Pinecone, Qdrant, Supabase, FAISS, ChromaDB

Cloud: GCP, Gemini (Chat + Embeddings), Vercel, Render

CERTIFICATIONS

Google Cloud Study Jam

GDSC, IIIT Kottayam

October 2023

- Completed hands-on labs covering Compute Engine, IAM, Cloud Storage, and Kubernetes Engine workloads.

Graph Theory Programming Camp

AlgoUniversity

2024

- Solved 17+ graph problems spanning BFS/DFS variants, shortest-path algorithms, and dynamic programming on graphs.

ACHIEVEMENTS & LEADERSHIP

Organiser – Adivya Freshers Fest 2024

IIIT Kottayam

Outreach Team – Sponsorship

2024

- Part of the outreach team responsible for identifying and reaching out to potential sponsors; contributed to securing funding and external partnerships for the college-wide freshers event.