

AJAY THOMAS

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EDUCATION

Vellore Institute of Technology (VIT)

B.Tech in Computer Science and Engineering (IoT) | GPA: 9.01

Vellore, India

Expected March 2027

EXPERIENCE

Software Developer Intern

Securra Health

June 2025 – July 2025

Chennai, India

- Developed **3 RESTful APIs** using **FastAPI** and **SQL Server** to automate daily, weekly, and monthly reporting workflows processing **20K+ records daily**, reducing report generation and verification from **1 hour to seconds/minutes**.
- Built automated **XLSX reporting pipelines** with **SQL**, **Pandas**, and **OpenPyXL**, enabling the **CTO, reporting team, and director** to access follow-up data across arbitrary time ranges.

Secretary

VinnovateIT – Tech Club

Jan 2026 – Present

Vellore, India

- Led development of a **Next.js + MongoDB** hackathon portal supporting **200+ participants across 45+ teams** during B³, a 30–48 hour blockchain and Web3 hackathon.
- Led digital marketing for **Messit**, a VIT hostel mess-menu tracking platform with **50K+ downloads and 30K+ users**.

PROJECTS

Intellectrics | React/Next.js, FastAPI, Supabase, Pandas, Gemini API

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

- Built an AI analytics platform tested on datasets with **100K+ rows and 15+ columns**, using **Pandas** for automated statistical profiling and chart generation over CSV/Excel files.
- Implemented a **3-model AI fallback chain** (Gemini, Groq, DeepSeek) with **Pydantic-validated structured JSON** and an **isolated query-execution sandbox** for safe NL-to-Pandas queries.
- Implemented **JWT authentication, Google OAuth, and row-level security** through **Supabase**, ensuring per-user isolation across Postgres and Storage.

Freshness-Aware RAG | Python, FastAPI, ChromaDB, SQLite, Sentence Transformers

[GitHub](#)

- Built a **freshness-aware RAG pipeline** that continuously scrapes web content, detects changes using **content hashing**, and maintains versioned document history.
- Designed a **dual-storage retrieval architecture** using **SQLite** for versioning and **ChromaDB** for live vector retrieval, embedding only changed content to avoid redundant work.

Brievo AI | React, FastAPI, Firebase, Gemini API

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

- Built an **AI-powered meeting assistant** using **FastAPI** and **Gemini** to transform transcripts into structured summaries and actionable tasks, with **Google Calendar API v3** integration.
- Integrated **Firebase Authentication and Google OAuth**, and implemented persistent meeting/transcription history for production deployment.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, SQL

Frameworks: FastAPI, React.js, Next.js, Tailwind CSS

Databases: SQL Server, PostgreSQL, MongoDB, Supabase, Firebase

AI Engineering: LLM Integration, Prompt Engineering, Structured Outputs, AI Fallback Systems, AI Workflow Automation

Backend & Cloud: REST APIs, OAuth 2.0, JWT, Docker, AWS, Git, GitHub, Vercel, Render

CERTIFICATIONS

AWS Certified Cloud Practitioner

[View Credential \(ID: 9a4138f5eb9a4ce0996e8bca122b08eb\)](#)

IBM Cybersecurity Analyst Certificate

[View Credential](#)