

# Allenn George Kannadickal

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## Summary

Computer Science student with hands-on experience designing data pipelines, backend systems, and production-ready applications in a startup environment. Skilled in Python and PostgreSQL for data ingestion, transformation, and structured storage, with experience building automated workflows and audit-ready systems. Seeking opportunities in Data Engineering and ETL-driven roles.

## Work Experience

**Ellipsonic India Solutions** – Software Developer Intern

Jan 2026 – Present

- Designed and implemented a Python-based ETL pipeline for automated market data ingestion, transformation, and broker API integration.
- Structured PostgreSQL schemas for trade tracking, historical analysis, and strategy state management ensuring auditability.
- Developed scheduled data workflows with persistent logging and error handling for reliable automated trade execution.
- Built REST APIs using Express.js with SQLAlchemy-backed transactions for consistent database operations.
- Automated recurring trade screening and execution workflows using scheduled jobs, reducing manual intervention and ensuring reproducible strategy runs.
- Delivered an additional full-stack Clinic Management System (Next.js, Express.js, MongoDB) in a production-ready startup environment.

## Projects

**Cross-Lingual Legal Document Processor**

Academic Project

- Built an end-to-end OCR-to-translation pipeline using Tesseract and transformer-based NMT models (IndicTrans2, InLegalTrans).
- Implemented layout-aware clause segmentation and glossary enforcement achieving COMET scores up to 0.89.
- Developed a Streamlit interface supporting document upload, review, and structured DOCX export.

**F&O Stock Market Prediction System**

[GitHub](#)

- Built a financial data pipeline for automated market data ingestion, feature engineering, and real-time ML-based signal generation via an interactive dashboard.
- Designed a configurable backtesting engine with risk controls (stop-loss, expiry logic) to validate trading signals.
- Deployed an XGBoost-based prediction system with a Dockerized backend hosted on Render and a React dashboard deployed on Vercel for cloud-based access.

## Education

**B.E. (Honours) in Computer Science**, BMS Institute of Technology and Management 2026

CGPA: 8.45

## Skills

- **Programming:** Python, C++, Java
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Backend:** Express.js, FastAPI, REST APIs
- **Data & ML:** XGBoost, Random Forest, NLP
- **Frontend:** React, JavaScript, HTML, CSS
- **DevOps:** Docker, Vercel, GitHub Actions
- **Tools:** Git, GitHub, VS Code
- **Core CS:** Data Structures, OOP, DBMS, OS, CN

## Certifications

- **Google:** Data Analytics (2024)
- **Cisco:** PCAP - Python Programming (2024)
- **VTU COE:** Data Analytics with Python (2026)