

Gratus Richard Anthuvan Rosario

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EDUCATION

University of Nottingham

Masters in Computer Science - Artificial Intelligence (Expecting First Class)

Sept. 2024 – Sep 2025

Anna University

Bachelor of Engineering in Computer Science and Engineering (First Class)

Dec. 2020 – May 2024

EXPERIENCE

Founding Full Stack Engineer

Siddons Yeates and Sharples Ltd

Sept. 2024 – Present

Nottingham, United Kingdom

- Architected and delivered a compliance automation platform, aligning business outcomes with **scalable cloud infrastructure**.
- Enhanced **operational efficiency by 45%** through automated document validation and workflow optimization.
- Led system improvements across backend, frontend, and CI/CD, enabling **15-minute Docker rollouts**.
- Mentored engineers on full-stack practices, fostering cross-team capability growth.

Software and Data Engineer

Anteam AI

Jun. 2025 – Sep. 2025

Nottingham, United Kingdom

- Delivered a real-time Route Analysis Platform improving internal performance by **35%**.
- Engineered **Python microservices** and optimized geospatial pipelines (10M+ records/month) for spatial analytics.
- Reduced query latency by **60%** via optimized similarity search and caching.
- Integrated React/TypeScript frontend with REST APIs to improve data usability and user experience.

Machine Learning Engineer (R&D)

The Reciprocal Solutions

Dec. 2023 – Aug. 2024

Coimbatore, India

- Productionized research ML models into containerized AI microservices using FastAPI and Django REST.
- Deployed systems handling **50K+ daily inferences** with sub-second response times.
- Automated data pipelines and monitoring, cutting manual intervention by **40%**.
- Guided engineers in MLOps, Docker orchestration, and scalable deployment practices.

Data Scientist

Entrocy Solutions

Aug. 2021 – Oct. 2023

Tamil Nadu, India

- Developed predictive analytics and anomaly detection models, improving insight accuracy by **40%**.
- Automated ETL and feature pipelines, reducing data prep time by **50%**.
- Built dashboards and reports transforming analytical outputs into actionable KPIs.
- Maintained reproducible ML workflows using version control and structured documentation.

TECHNICAL SKILLS

Languages: Python, SQL (PostgreSQL), JavaScript (ES6+), TypeScript

Frameworks & Libraries: PyTorch, scikit-learn, Pandas, NumPy, React.js, Django, Flask, FastAPI, GraphQL, Node.js

Data Science & Engineering: Machine learning pipelines, feature engineering, data preprocessing, ETL workflows, semantic modelling, data integration, and visualization (**Plotly, Dash, Streamlit**)

Tools & Platforms: Docker, GitHub Actions, Jenkins, Linux, REST APIs, JSON, CI/CD, cloud data platforms (AWS/GCP exposure), Palantir Foundry (familiarity)