

JOSEPH JACOB ANJILIMOOTTIL

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 2 years of production experience building and shipping scalable backend systems in a fast-paced fintech environment. Promoted twice in 22 months at Easebuzz, delivering high-impact features across payment infrastructure handling 150,000+ daily transactions — including a merchant onboarding API that reduced processing time from 3 days to 30 minutes. Collaborative team player with experience across engineering, product, and partner functions. Holds an MSc in Data Analytics from NCI Dublin and a BTech in Computer Science with Honours in AI/ML.

WORK EXPERIENCE

- Easebuzz, Software Engineer (Intern → SDE-1 → SDE-2)** Jan 2023 – Nov 2024
- Reduced backend processing load by 70% on a system handling 150,000+ daily transactions by replacing synchronous partner commission calculations with concurrent async processing using **Python asyncio** — chosen over caching to enable true parallelism across independent commission streams.
 - Developed a mass merchant onboarding API, collapsing a **3-day process** (manual configuration, multi-level human approvals, and bank account verification) into **30 minutes** — scaling to **8,000+ merchants** and directly contributing to **~30% gross revenue growth**.
 - Designed modular **Django REST APIs** managing partner-merchant configuration — architected for reuse across internal teams and external partner integrations, serving **50,000+ partners** with **98% uptime**.
 - Delivered the company's first AI-powered customer support chat system using **Amazon Bedrock**, trained on internal product policies — deployed across multiple **AWS** availability zones for high availability.
 - Reduced deployment time from **2 days** to **15 minutes** by implementing **CI/CD pipelines** with **Docker** and **Jenkins** across **10 services**.
 - Recognised as **Employee of the Quarter** within 3 months of joining — promoted twice in **22 months** from Intern to **SDE-2**.

PROJECTS

- Alzheimer's Disease Detection using Multi-IT Transformer** Sep 2025 – Dec 2025
- Extended an Interpretable Transformer architecture to **4-class Alzheimer's staging** across **44,000 MRI scans**, addressing a classification gap present in over **80%** of existing AD literature.
 - Applied **Triplet Attention mechanisms** to highlight clinically relevant brain regions, contributing explainability analysis purpose-built for clinical decision support rather than benchmark performance.
 - Trained on **NVIDIA A100** using PyTorch with mixed-precision and cosine annealing, benchmarking against 4 CNN baselines — demonstrating that transformer architectures require multimodal or volumetric input to match CNN performance on 2D MRI-only tasks.
- Moby Dublin - Telemetry Platform** Jun 2025 – Aug 2025
- Designed a real-time streaming pipeline processing live GeoJSON telemetry from Dublin's Moby e-bike fleet using Apache Spark Structured Streaming with event-time windowing and watermarking — eliminating **14% duplicate records** caused by GPS noise in dense urban zones.
 - Engineered fault-tolerant aggregation outputs stored as Parquet on **AWS S3** and **MongoDB**, surfacing operational signals including demand hotspots, station crowding at **180-200% capacity**, and rebalancing triggers.
 - Built entirely without access to trip-level data, requiring inference from station-state changes alone — insights delivered through an interactive **Streamlit dashboard** enabling proactive fleet rebalancing decisions.

SKILLS

Languages Python, JavaScript	Frontend React, Ant Design	Backend Django	Databases MongoDB, Redis, PostgreSQL
Cloud & DevOps AWS, Docker, Jenkins	Data Engineering Apache Spark, Dagster	Machine Learning TensorFlow, Keras, Scikit-learn, Torch	

EDUCATION

- Master of Science in Data Analytics, National College of Ireland, Dublin** Jan 2025 – Jan 2026
- Bachelor of Technology (Computer Science and Engineering) With Honours in Artificial Intelligence and Machine Learning, Symbiosis Institute of Technology, Pune** Jul 2019 – May 2023