

# Daniel Antony Rodrigues

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## SUMMARY

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Backend software engineer with 5 years of experience building reliable, high-performance systems across Python, Node.js and TypeScript. I've shipped production backends across both early-stage startups and structured engineering teams, including AI-powered document processing pipelines and high-throughput financial data platforms processing 100k+ daily transactions. I've delivered measurable results in production, hitting 98% accuracy and cutting operational costs by 40% through smart infrastructure decisions. I thrive getting into the weeds of how software works, and building clean, reliable backend systems that teams can genuinely depend on is what drives me.

**TECHNICAL SKILLS:** Python, Typescript, Golang, FastAPI, Django, Pytest, ExpressJS, NestJS, Postgres, Mongo, AWS, Git, Github, GenAI, Docker, Kubernetes, Jenkins, Grafana

## PROFESSIONAL EXPERIENCE

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### INFRD

Bangalore, India

Software Development Engineer-2

Apr 2025 – Apr 2026

- Reworked the core table extraction logic within our in-house document extraction product, replacing a full-document LLM approach prone to cell shifting and misalignment with a custom OCR-coordinate-driven pipeline that crops each table individually, feeding only relevant page-level context to the model for cleaner, more accurate extraction.
- Implemented post-processing validation and correction logic to handle residual model errors, significantly increasing no-touch processing (NTP metric) rates and true-positive accuracy to ~98% across all critical tables in closing disclosure documents.
- Spearheaded the end-to-end development of **DocIQ**, scoping, designing, and delivering this process automation platform used by multiple technical and non-technical teams within the organisation. Delivered the v1 within 2 weeks by leveraging agentic coding workflows in Cursor.

### MESHA

Remote

Software Engineer

Aug 2024 – Feb 2025

Product Hunt Link: <https://www.producthunt.com/products/mesha>

- Led development of Recon, an AI-powered automated transaction reconciliation system built on TypeScript, MongoDB and Express.js integrating OpenAI and Anthropic APIs, achieving 95% accuracy and reducing reconciliation time by 50%.
- Engineered clarification and closing agents that automated follow-ups for incomplete reconciliation data and ensured accurate transaction closures, reducing manual intervention by 80% and improving end-to-end task completion efficiency.
- Built an agent builder platform enabling customisable workflows with review checkpoints, cutting development time for client-specific requirements, alongside key UI features in Next.js and Tailwind CSS including the email automations and agent builder pages.

### PROPELLYR

Remote

Software Development Engineer

Aug 2022 – July 2024

- Led development of an AI-powered data analysis application using React.js, Python, FastAPI and DuckDB, directly contributing to successful fundraising and establishing the company's technical foundation.
- Designed and built a high-performance distributed data processing platform in Node.js and Express.js using a microservices architecture, processing 100k+ daily transactions with 95% uptime and enabling mission-critical tax calculation functionality for enterprise clients.
- Led and engineered an enterprise-grade financial data computation platform with real-time asset pricing infrastructure, eliminating external API dependencies and cutting operational costs by 40%, positioning the platform for strategic partnerships with industry leaders.

## WIPRO

Project Engineer

Bangalore, India

June 2021 – July 2022

- Worked with customer machinery data using Python, pandas and numpy for data manipulation, statistical analysis and extracting operational insights for client facing deliverables.
- Built Python scripts to automate manual data processing workflows, reducing repetitive engineering tasks and improving the team's overall delivery speed.

## PERSONAL PROJECTS

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### Professional Journey Chatbot

- Developed a conversational AI chatbot using Python and FastAPI with MongoDB for persistent storage of conversation history and user interactions, that engages visitors in natural dialogue about my professional experience, technical expertise, and personal journey.
- Designed a cost-efficient backend system utilizing AWS Lambda functions for serverless deployment, reducing monthly infrastructure costs to near-zero while maintaining high availability. Previously hosted on Digital Ocean droplets.
- Built a responsive frontend using Next.js and Tailwind CSS, implementing real-time chat features with optimistic UI updates and error handling. Deployed on Vercel for seamless continuous deployment.

## EDUCATION

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Deakin University, Geelong, Victoria

2026 – 2028

Master of Applied Artificial Intelligence

Vellore Institute of Technology, Vellore, India

2017 – 2021

Bachelor of Technology (B.Tech), Electrical and Electronics Engineering