

# Rohith Kumar Naidu Movva

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## Professional Summary

AI and Cloud Engineer | Full Stack Developer with experience delivering cloud-native applications and **Agentic AI** automation in banking operations at Commonwealth Bank of Australia (via Persistent Systems). Strong capability across AWS managed services, microservices, and LLM-enabled workflows (**multi-agent orchestration with LangGraph**, RAG, multimodal extraction) to automate document-heavy processes and improve operational throughput, accuracy, and turnaround time.

## Key Highlights

- Built a cloud-native payment processing service scaling to **10,000+ daily transactions** with **99.9% availability**.
- Designed an **Agentic AI** document pipeline using LangGraph multi-agent orchestration, reducing processing time from **15 minutes to 2 minutes** per case (87% improvement).
- Delivered LLM-assisted validation and human-in-the-loop routing, reducing manual data entry by **70%**.
- Production delivery in regulated banking environments, integrating with internal APIs and downstream platforms.

## Technical Skills

**AI & LLMs:** LangGraph, LangChain, RAG, vector search, prompt engineering, Langfuse (observability), GPT-4V (multimodal)

**AWS:** ECS Fargate, Lambda, SQS, ALB, S3, Aurora, VPC, CloudWatch, EC2

**Backend:** Python (FastAPI), Node.js (Express), REST APIs, microservices, SQL

**Frontend:** React, TypeScript, JavaScript, Tailwind CSS, responsive UI

**Data:** PostgreSQL, AWS Aurora, MongoDB Atlas

**DevOps & Tools:** GitHub Actions (CI/CD), Docker, Git, Postman, JIRA, Agile/Scrum

**ML & Data Science:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, spaCy, NLTK

## Professional Experience

### Commonwealth Bank of Australia (*via Persistent Systems*)

**AI Engineer & Full Stack Developer** | Sydney, Australia | April 2025 – Present

#### Cloud-Native Payment Issuer (*Payments*)

- Designed and delivered a cloud-native, serverless-first payment processing service using ECS Fargate, Lambda, SQS, ALB, and Aurora, processing 10,000+ transactions per day with 99.9% availability.
- Built REST APIs for ingestion and validation of Home Loan Closure payloads, enforcing schema validation and business rules prior to persistence.
- Implemented endpoints to maintain real-time consistency between the payment engine and downstream ledger systems.
- Established CI/CD using GitHub Actions for application delivery and infrastructure provisioning (IaC).

#### Intelligent Document Capture (*Agentic AI with LangGraph*)

- Architected a LangGraph multi-agent workflow to classify, extract, and validate documents across multiple formats, reducing processing time from 15 minutes to 2 minutes per case.
- Implemented a multimodal classification and extraction agent (GPT-4V) generating structured JSON outputs with 94% extraction accuracy.
- Built tool-using agents to query internal banking APIs for ground-truth data and a validation agent to compute field confidence and drive human-in-the-loop routing, reducing manual workload by 70%.
- Delivered FastAPI services with PostgreSQL state management and Langfuse observability for prompt tracing and performance monitoring.

#### Mortgage Discharge Email Automation (*AI-Powered Triage*)

- Developed an email triage pipeline using Microsoft Graph API to classify 500+ daily discharge requests and automate case creation in Pega.
- Implemented intent classification (full/partial discharge, consents, substitutions) and customer matching logic using address and account signals.
- Produced a strict JSON handoff schema to trigger downstream case APIs, reducing manual triage workload by 60%.

#### Green Light Worldwide (*Contract*)

**Network & IT Support Engineer** | Sydney, Australia | February 2025 – April 2025

- Managed hardware and software asset lifecycle for SAP's ANZ operations, ensuring seamless device provisioning.

- Configured Cisco routers and servers onsite, establishing secure connections between physical infrastructure and cloud environments.
- Conducted rack-and-stack operations and network troubleshooting to ensure high-availability server performance.

## **Buildingmanager.com** | Sydney, Australia | December 2023 – January 2025

### **Full Stack Developer**

- Designed and implemented a full-stack property management platform using React.js, Node.js, and PostgreSQL/MongoDB for real-time operations.
- Developed role-based dashboards and dynamic reporting to monitor tasks, compliance, and building assets.
- Created work order management system with CRUD operations, real-time status updates, and contractor assignment workflows.
- Built key and asset tracking modules with digital logs and e-signature functionality.
- Integrated RESTful APIs with frontend React components and optimized performance using caching and query optimization.

## **ACS Professional Year Program** | Sydney, Australia | January 2024 – February 2025

### **Australian Workplace Integration**

- Refined technical communication strategies, focusing on stakeholder engagement, requirements gathering, and translating complex technical concepts for non-technical audiences.
- Applied Australian industry standards, including the ACS Code of Ethics, WHS regulations, and privacy compliance laws, to software development lifecycles.
- Demonstrated effective cross-functional collaboration and agile team dynamics within a simulated Australian corporate environment.

## **Cognizant**

### **AI Engineer & Full Stack Developer** | Hyderabad, India | March 2021 – December 2021

- Designed and developed a microservices-based AI-driven support portal with role-based authentication (JWT) and tiered response logic.
- Built RESTful APIs using Node.js and Express.js, integrating with MongoDB Atlas for data storage; developed responsive frontend using React.js and Tailwind CSS.
- Deployed application on AWS (EC2, S3), implementing CI/CD practices with Git for version control.
- Developed ML models using TensorFlow, PyTorch, and Scikit-learn for predictive analytics; built NLP pipelines for sentiment analysis using spaCy and NLTK.

## **Personal Projects**

### **Full Stack E-Commerce Platforms (Organic Mart & CycleHub)**

- Built two production-ready MERN stack applications with automated CI/CD (Render, Vercel), admin dashboards for inventory management, and PayPal API integration.
- Live: [agrotecharvest.com](https://agrotecharvest.com) | [ambika-bike-alley.vercel.app](https://ambika-bike-alley.vercel.app)

### **Custom Transformer Architecture & Computer Vision**

- Engineered a Transformer model (Encoder-Decoder) from scratch, implementing forward/backward propagation and weight optimisation.
- Built image processing pipelines using OpenCV for noise reduction, thresholding, and grayscale conversion.

## **Education**

### **Master of Computer Science** | University of Wollongong | 2022 – 2023

*Majors: Machine Learning, Big Data Analytics, Software Engineering*

### **Bachelor of Electronic and Communication Engineering** | Aurora Engineering College | 2016 – 2020

## **Certifications**

- AWS Certified Machine Learning - Specialty
- Pega 8.8 CSA Certified

## **Working Rights**

485 Post-Study Work Visa - Full-time working rights without restrictions.