

ARUMUGAM MAHARAJA M

Senior Software Engineer

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SUMMARY

Experienced **Software Developer** with **6.7+ years** of expertise in designing and implementing **scalable, high-performance applications and frameworks** using **Python, Golang (Go), Machine Learning**, and **cloud technologies** (GCP | Azure). Adept at developing data-driven systems, automating workflows, and deploying ML models to enhance decision-making and operational efficiency. Strong domain experience in **Oil & Gas** and **Telecommunications**, with a proven record of delivering **robust, production-grade software solutions**.

EXPERIENCE



Senior Software Engineer

Accenture 03/2022 - Present Chennai and UK

- Developed and optimized **scalable microservices** and backend APIs using **Golang**, implementing complex business logic for Oil and Gas software systems
- Conducted proofs of concept on **Neo4j Knowledge Graphs** and **Graph RAG**-based Generative AI solutions, enhancing data discovery and contextual retrieval capabilities.
- Integrated **Dataiku** pipelines and **machine learning** computations using **Python**, enabling predictive analytics and operational insights for business workflows.
- Contributed to the **OSDU** data mapping product, testing and validating releases for cloud service provider, ensuring compliance with OSDU data standards.



Software Engineer

TCS 05/2019 - 03/2022 Chennai

- Developed and Deployed a **Machine Learning Model for Order and Fallout SLA predictions**. Increased the accuracy of prediction to 85% by incorporating valuable features from Telecom BSS IT Systems from Telecom Domain Knowledge
- Collaborated with **UK and South African telecom clients**, presenting data flow architectures, explaining defect fixes, and translating business insights into ML-driven solutions.
- Designed and implemented **fraud detection models** using unstructured data, leveraging **convolutional neural networks (CNNs)** and time series forecasting for anomaly detection.
- Promoted to subject matter expert (SME)** for the customer migration project in recognition of outstanding technical performance and business impact.

EDUCATION

Bachelor of Engineering, B.E

Sona College of Technology, Anna University

CGPA
9.57 / 10

08/2015 - 05/2019 Salem, India

- Awarded a **Silver Medal** for overall academic excellence and top-ranking performance in engineering.
- Achieved an **'O' Grade in all mathematics** subjects, demonstrating a strong analytical ability and a deep interest in quantitative problem-solving.
- Developed a **Concrete Mix Grader software using Java Swing**, automating material ratio calculations and enhancing precision in civil engineering mix design.

SKILLS

Golang Python Machine Learning
GenAI Dataiku Neo4j
Microservices Oil and Gas Upstream
GitHub Copilot GCP Kubernetes

KEY ACHIEVEMENTS



Awards and Accreditations

Best Performer Award (6 consecutive financial years)
Accenture - ACE - FY2025,2024,FY2022
Accenture - Sterling Start - FY2023
TCS - Star of the month - FY2020
TCS - PMAP - FY2021

Completed **short-term onsite assignment** in **Oxford, UK**, collaborating directly with clients to enhance project outcomes and strengthen business relationships. Attended business workshop in **Norway**.



Open-Source App Development

Successfully developed and deployed multiple mobile applications, showcasing skills in app development and innovation

CERTIFICATIONS

GCP Certified Associate Cloud Engineer

Microsoft GitHub Copilot Certified

Dataiku ML Practitioner Certified

Neo4J Certified Developer

Machine Learning (Coursera - Stanford)

Deep Learning Specialization (Coursera)

NPTEL Certifications on
Python/Geology/Waste Management