RUDALPH GONSALVES

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PROFESSIONAL SUMMARY

Software Engineer with experience in building secure, scalable, and AI-driven applications using modern tech stacks. Passionate about developing high-performance systems and contributing to Mastercard's mission of powering an inclusive, sustainable digital economy.

EDUCATION

Master of Science in Computing (Artificial Intelligence), Dublin City University.   Expected 2026
Relevant Coursework: Machine Learning, Data Analytics, Artificial Intelligence, Generative AI.

Bachelor of Technology in Computer Engineering, University of Mumbai   2021 - 2025
Honours Minor Degree in Data Science   CGPA: 8.9
Relevant Coursework: Software Engineering, Operating Systems, Cloud Computing, Computer Networks

SKILLS

Programming	Python, Java, C, JavaScript, SQL
Frameworks/Libraries	React.js, Next.js, TailwindCSS, Node.js, Express.js, Flask
AI & Machine Learning	LLMs, RAG, LangChain, TensorFlow, Hugging Face
Databases (SQL & NoSQL)	MongoDB, Firebase, MySQL
Cloud & DevOps	AWS, Azure, Google Cloud, Git/GitHub, CI/CD, Docker, Kubernetes
Software Development	Microservices Architecture, API Development, Cloud Deployment Models
Testing & QA	Playwright, Automation Testing
Tools & Practices	Agile, System Design, Secure Coding, Version Control, Defensive Coding
Data Structures & Algorithms	250+ LeetCode, 50+ CodeChef problems

EXPERIENCE

Software Development Engineer Intern   Jan 2025 - Jun 2025
Future Logic Systems Pvt. Ltd.   *Mumbai, India*

- Developed a blockchain-based full-stack app using MERN, Ethereum, and IPFS and deployed on Vercel.
- Delivered an MVP in a 5-member agile team and demoed it to 2+ stakeholders. Used Github for version control.
- Implemented defensive coding practices with input validation, error handling, and logging to track system errors.
- Used by 5+ enterprises to authenticate 1,000+ products. Developed microservices integrated with client systems.

Automation Testing Engineer Intern   Feb 2025 - May 2025
Arcon Techsolutions Pvt. Ltd.   *Mumbai, India*

- Developed 150+ Java Playwright scripts for testing Arcon's internal web applications.
- Demoed all automation scripts to the QA team, achieving 70%+ test coverage.
- Reduced manual testing effort by 40–50% through robust end-to-end automation.

Software Development Engineer Intern   Feb 2024 - July 2024
VPN Digital Services Pvt. Ltd.   *Mumbai, India*

- Developed a secure and scalable MERN-based full-stack web application to support cybercrime investigation.
- Deployed on AWS and contributed to CI/CD pipeline for scalable and maintainable code delivery.
- Presented the MVP to 5+ key stakeholders, collaborated within a cross-functional team of 10+ members.

Software Development Engineer Intern   July 2023 - Sept 2023
Fire and Security Association of India   *Mumbai, India*

- Built an app for FSAI Mumbai Chapter to enhance Ganesh Chaturthi safety audits, covering 100+ mandals.

- Digitalized registration and scoring with geo-tagging and image capture, improving efficiency by 60%.
- Implemented secure and scalable REST API using Flask, deployed on Render and contributed to CI/CD pipeline.

PROJECTS

MediSense – Enlightening Health, Empowering Lives.   https://medi-sense.vercel.app/

- Developed a Gen-AI based application that solves 2 major problems in healthcare domain (Cheaper Alternate Medicines and Historical Report Analysis)
- Technologies used: MERN, RAG, Graph RAG, LLMs, LangChain, ChromaDB, Flask, Firebase, Github, Vercel.
- Achievements: Won 36 hrs International Hackathon, Received best innovation solution award from IIC-Fr. CRCE, Secured pre-incubation from Mumbai University, Published in IEEE Conference.

Legal Connect – AI powered legal documentation assistance.

- Built AI-powered legal documentation assistance with features like Document Generator, Document Simplifier, Legal Chat Bot and LinkedIn-like application for lawyers and clients
- Technologies used: MERN, Nextjs, TailwindCSS, RAG, OpenAI, Pinecone, Langchain, Git/Github, AWS.
- Achievements: Won Smart India Hackathon 2023 (India's Largest Hackathon), Won Idea Design & Entrepreneurship Bootcamp.

JivSankalp – Conservation of Endangered Species Using AI/ML.

- Developed a Machine Learning based application to capture and detect endangered animals and their distress calls, enabling real-time wildlife monitoring to support conservation efforts.
- Technologies used: Inception v3, YAMNet, Tensorflow, Flask, Keras, TensorFlow, Git/Github Deep Learning.

CERTIFICATIONS

AWS Academy Cloud Foundations   April 2024
Amazon Web Services (AWS)   [View]

Natural Language Processing with Classification and Vector Spaces   September 2023
DeepLearning.AI   [View]

PUBLICATIONS

MediSense: An Advanced Health Tech Application Using Generative AI   February 2025
Institute of Electrical and Electronics Engineers (IEEE)   [View]

- Rudalph Gonsalves et al., 2024 International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application (ICAIQSA), IEEE.

ACHIEVEMENTS & EXTRA-CURRICULAR ACTIVITIES

- **Winner** – Smart India Hackathon 2023 (India's Largest Hackathon); Team Lead.
- **Winner** – Sunhacks 2024 (36 hour International Hackathon); Team Lead.
- **Winner** – Idea Design and Entrepreneurship Bootcamp 2024 (Organized by MoE and AICTE).
- **Judge & Mentor** – Smart India Hackathon 2025 (Fr. CRCE Internal Round) & Bit N Build Hackathon (twice).
- **Guest Lecturer** – Delivered 4 lectures on AI (RAG) and Blockchain (Hardhat) at Fr. CRCE.
- **Founder** – Received pre-incubation support from the University of Mumbai for the MediSense startup idea.
- **Best Innovation Solution Award** – From IIC-Fr. CRCE for project MediSense.

LEADERSHIP

- **Campus Lead**, AlgoZenith Campus Connection Program (2023–24); organized 3+ technical events.
- **Associate Member**, Google Developer Students Club (2022–23); conducted 5+ technical workshops and events.