

NIRAV REDDY RAMIDI

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PROFESSIONAL SUMMARY

Computer Science graduate with hands-on software and data experience in **Java/Python**, REST APIs, cloud services, and ML. Delivered production-style services with **Docker**, **CI/CD**, and **GCP**, and collaborated in Agile teams. Strong grasp of **OOP**, **data structures**, and **testing**; quick to learn unfamiliar stacks. **Availability: Oct 2025.**

CORE SKILLS

- **Languages:** Java, Python, SQL, C; basic JavaScript/HTML/CSS
- **Frameworks/Tools:** Spring Boot, FastAPI, JUnit, PyTest, Git/GitHub, Docker, CI/CD, Linux
- **Cloud & Data:** Google Cloud (BigQuery, Cloud Run/Functions, Composer/Airflow, Vertex AI), PostgreSQL
- **ML/Analytics:** scikit-learn, TensorFlow/PyTorch (basics), pandas, NumPy; dashboards (Tableau/Power BI)
- **Core CS:** OOP, data structures & algorithms, RESTful design, testing, debugging

EXPERIENCE

Data Science Analyst Intern — Icon Life Sciences (*Remote, Hyderabad*) May 2025 – Sept 2025

- Unified **12+** data sources into **BigQuery** (Python + Cloud Functions + Airflow), cutting manual Excel effort by **>80%** and enabling single-source reporting.
- Built a brand-level demand forecast (LightGBM) with **MAPE 7.9%**; insights supported planning and helped reduce stock-outs by **~18%**.

Junior Machine Learning Engineer — iAssist Innovation Labs (*Karnataka, India*) Apr 2024 – Sept 2024

- Shipped a **FastAPI** microservice (Docker/K8s) for a **CNN-OCR** workflow; **p95 < 300 ms**, **~1,000 req/s** at **0.2%** error in load tests.
- Implemented an **NLP** parser for discharge summaries; added tests and basic monitoring.

AI & ML Intern — iAssist Innovation Labs (*Karnataka, India*) May 2023 – Sept 2023

- Automated **GCP** data pipelines (Cloud Storage → BigQuery → Vertex AI via Airflow), improving preprocessing latency by **40%** with **99%** valid records.
- Trained an image model (**EfficientNet-B3**, TensorFlow) and tracked artefacts with MLflow.

PROJECTS

- **Spring Boot Marketplace (Java, Thymeleaf, Docker):** Auth (admin/customer), catalogue, cart, orders; wrote **JUnit** tests and **Javadoc**.
- **Library Analytics Microservices (FastAPI, RabbitMQ, Docker/GKE):** 4-service, async messaging; **~1,100 req/s @ ~280 ms p95** in tests; basic CI and health checks.
- **LiDAR Re-localisation (FYP, Python/Open3D):** Built an ICP-based pipeline; analysed range/FoV/density/noise trade-offs on KITTI.
- **C “Twitter” (linked-list news feed):** Implemented post/follow/unfollow and per-user **top-10** feed using pointers and modular C; frequent Git commits.
- **Cascadia Board Game + Bot (Java):** Console game with correct scoring & nature-token rules; designed a rule-based bot; added **JUnit** tests and UML diagrams.
- **Huffman Text Compressor (Java):** Built binary *compress/decompress* utilities; evaluated on text and bitmap files; compared against RLE.
- **AVL Trees & Hashing (Java):** Implemented chaining/linear probing and AVL rotations (insert/delete); analysed clustering and load factors.
- **xv6 (RISC-V) OS Lab (C):** Added a system call and simple device driver; examined multitasking and file-system behaviour.
- **Digital Systems FSM (Logisim):** Designed a D-FF-based FSM to drive a 7-seg display; verified with K-maps and timing diagrams.

EDUCATION

BSc (Hons) Computer Science — University College Dublin, Ireland Sep 2021 – May 2025
Modules include: Data Structures & Algorithms, Software Engineering (Java/C), Operating Systems, Databases & SQL, Web Development, Cloud Computing, Machine Learning, HCAI.

LEADERSHIP & ACTIVITIES

Treasurer — UCD Badminton Club & Music Society (*Dublin, Ireland*) Jan 2023 – Sept 2024

- Managed **~€25,000** across events with transparent reporting.

Founder — FarmEasy (*Hyderabad, India*) Jan 2020 – Sept 2022

- Ran a backyard-to-table micro-farm; handled operations, weekly orders, and cashflow.

RESEARCH & WRITING

Business Management analysis — “**Viability of a new division at Icon Life Sciences**” (IB BM HL IA, 2021)
Interviews + financial modelling (moving averages, PMPM, break-even); produced a concise recommendation memo.