

# KARTHIK THYLOOR MAHESH

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## PROFESSIONAL SUMMARY

Motivated Cloud Developer and MSc Cloud Native Computing student with a strong background in software engineering and electronics. Skilled in C++, Java, and Python with hands-on experience in Docker, Jenkins, and Linux-based environments. Currently pursuing the **AWS Solutions Architect – Associate certification**. Passionate about cloud infrastructure, DevOps automation, and building scalable, reliable systems that bridge hardware and cloud-native technologies. Seeking to contribute to HPE's GreenLake platform by applying technical problem-solving and collaborative development skills.

## PROFESSIONAL EXPERIENCE

### 1. Backend Development Intern - Rooman Technologies, Bengaluru

Jun 2023 - Sep 2023

- Designed and implemented modular backend services in **C++ and Java**, applying OOP principles and clean architecture.
- Enhanced REST API performance and database efficiency with **MySQL** and **MongoDB**.
- Collaborated in **Agile sprints**, contributing to debugging, code reviews, and version control via **Git**.

### 2. Full Stack Web Development Intern - KnowX Innovations, Bengaluru

Aug 2022 - Sep 2022

- Developed a **Student Result Management System** using **Java, PHP, HTML/CSS, and MySQL**.
- Built RESTful APIs enabling real-time synchronization between front-end and back-end components.
- Deployed and tested web applications in an **Agile team** using **Git** for version control and collaboration.

### 3. Duty Manager (Part-Time) - Mr Price, Athlone | Nov 2024 - Present

- Promoted from **Sales Assistant** to **Duty Manager** within one year based on performance and reliability.
- Supervise daily operations, cash handling, and staff scheduling for a high-traffic retail environment.
- Developed strong **leadership, teamwork, and customer communication** skills while managing diverse priorities

## TECHNICAL SKILLS

- Programming: C++, Python, Java, C
- Cloud & DevOps: AWS (in progress – Solutions Architect Associate), Azure, Docker, Kubernetes, Jenkins, CI/CD, Serverless
- Tools: Git, CMake, CLion, Visual Studio, MATLAB, Cadence Virtuoso
- Operating Systems: Linux (Ubuntu), Windows
- Concepts: Cloud Infrastructure, Microservices, OOP, Data Structures, Debugging, Agile SDLC

## EDUCATION

- MSc in Software Design with Cloud Native Computing - Technological University of Shannon, Ireland Sep 2024 – Sep 2025 | (2:1)
- Bachelor of Engineering – Electronics and Communication Engineering– Global Academy of Technology Bengaluru, India, VTU Jan 2020 - Sep 2023 | CGPA: 6.5/10

## PROJECTS

1. **Hand Gesture-Controlled Wheelchair** (IoT + Embedded System) - Dec 2022 – Feb 2023
  - Programmed control logic in **C++ and Embedded C** for Arduino and Android interfaces.
  - Integrated gesture sensors and optimized algorithmic response using **MATLAB** and **Proteus**.
  - Simulated sensor data and motion control before hardware deployment.
2. **Signal Modulation and RF Circuit Design** - Academic Mini Project, 2022
  - Designed and simulated **RF circuit blocks** using **Cadence** tools and MATLAB.
  - Analyzed frequency response and gain performance of analog components.
3. **Dissertation:** Serverless Architectures for Modular AI Inference Pipelines - Technological University of the Shannon, 2025
  - Conducted comparative analysis of **AWS Lambda** and **Knative** for modular AI inference workloads.
  - Evaluated latency, scalability, and orchestration using **Docker** and **Kubernetes**.
  - Proposed hybrid serverless models improving resource utilization and cost efficiency.

## CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (In Progress)

## KEY STRENGTHS

- Cloud Development & Automation
- Continuous Integration / Deployment (CI/CD)
- Problem Solving & Debugging
- Cross-functional Team Collaboration
- Agile Development & Documentation