

# JOSEPH CHERIAN KARIAMPALLY

+971 · 567296980 ◇ joseph.kariampally@gmail.com ◇ Dubai, UAE

www.linkedin.com/in/joseph-cherian-a37813169 ◇ www.github.com/JCherry101

## EDUCATION

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**Heriot Watt University, Dubai**

*Sep 2023 - May 2026 (Expected)*

BSc in Computer Science & Hons in Data Science

Current GPA: 3.74 (US GPA scale: 4.0)

## PROJECTS, EXPERIENCE, AND OTHER WORK

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**Plug Saver (Software Engineering)**

<https://pluginsaver77.weebly.com/>

*Backend and Database Management*

*Heriot Watt University*

- Worked with my team during my third year in university to develop a Web application that simulates the functionality of a real world smart home plug.
- Used Python to develop the Back-end functions and Flask to create a REST API to communicate with Front-end.
- Created the database using PostgreSQL in Supabase.com for live upkeep of the application and data storage.
- Understood the basics to work with a team and implement SCRUM and AGILE methodologies to achieve the final task in the project.

**Hardware-Software Interface**

Jan 2024 - May 2024

*Developer*

*Heriot Watt University*

- Developed a MasterMind game on Raspberry Pi 2 using C and ARM Assembly, integrating LEDs, a button, and an LCD for user interaction, with hardware control through GPIO and optimized performance using inline and pure assembly code.

**RedTeam CyberHack CTF Competition**

19th Jan 2025

*CTF Competition*

*Dubai, UAE*

- Won first place in Cyber Hack: Capture The Flag (CTF) event hosted by the Heriot Watt Tech Club in partnership with the REDTEAM Hacker Academy.
- Gained hands-on experience in real-world cybersecurity challenges.

**Udemy Courses**

Apr 2024 - Aug 2024

*Certificate Courses*

*Dubai, UAE*

- Completed courses: Data Science Bootcamp, Machine Learning A-Z, Tableau A-Z.
- [www.linkedin.com/in/joseph-cherian-a37813169](https://www.linkedin.com/in/joseph-cherian-a37813169)

**Extra and Co-Curricular Activities**

- Attended AI lectures by Careem, IBM, Microsoft, and SAP organized by The United Arab Emirates Minister of State for Artificial Intelligence Office.
- Attended a program for development for leadership, social, and presentation skills at Stanford University organized by You Go Lead.
- Won 1st place in a French short film competition organized by St.Theresa's College, Ernakulam.

## TECHNICAL STRENGTHS

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**Computer Languages**

Python, Java, R, C

**Protocols & APIs**

XML, JSON, REST

**Databases**

MySQL, PostgreSQL

**Tools**

Tableau, Git, R Studio, Docker

**Spoken Languages**

English, Hindi (Beginner), Malayalam(Beginner)