

Shwetha Rajesh

CS & Engineering Student (IoT)



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🐙 github.com/Shwetha-org

🔗 Website - Portfolio

🎓 EDUCATION

BSc in Computer Science & Engineering (IoT)

Högskolan Kristianstad, Sweden

08/2023 – Present | Sweden

International Baccalaureate (IB)

ISSR, Stockholm

08/2020 – 06/2023 | Stockholm

HL: Math, Physics, Psychology

🧠 SKILLS

Programming (Python, Kotlin, Java, C, Basic Assembly)

Databases (Azure SQL, MySQL)

Tools & Frameworks (JIRA (Scrum/Agile), Git/GitHub, Wireshark, UML modeling, Retrofit, Coroutines, Hilt)

Cloud & Backend (Azure platform, REST API integration, backend system development)

Hardware (PCB assembly, digital electronics, Raspberry Pi, sensor interfacing)

Soft Skills (Strong communication, collaboration, and effective problem-solving skills.)

🌐 LANGUAGES

English ● ● ● ● ●

Swedish ● ● ● ● ●

Hindi, Malayalam, Tamil ● ● ● ● ●

🏆 AWARDS & RECOGNITIONS

Erasmus Exchange Student: Water Sustainability Project - Italy

Vasa International School

Exchange Student to India

ISSR

Active member of Global Citizens Club supporting underprivileged children in India

📄 SUMMARY

Computer Science and Engineering student specializing in the **Internet of Things**, with practical experience in **backend development**, **SQL databases**, and **data-driven systems**. Skilled in **cloud platforms**, **IoT hardware integration**, and **agile development workflows**. Particularly interested in building **secure, scalable embedded and cloud-connected systems**, with a problem-solving mindset and strong focus on real-world engineering challenges.

💼 WORK EXPERIENCE

Android Developer (Kotlin) - Project in Collaboration with Industry Partner

Assimilatus AB ☑

10/2025 – Present

- Built a native Android app in Kotlin using MVVM, Jetpack Compose, Retrofit, Coroutines, Room, and Hilt for a bagless travel platform, integrating REST APIs and an AI-based body measurement feature to generate and securely store reliable user measurements.
- Worked in a cross-functional team of five using agile workflows and code reviews, contributing to app architecture while improving performance, data reliability, and maintainability.

Teaching Assistant – IoT & Engineering Courses, Kristianstad University

08/2025 – Present

- Supported students across multiple courses by facilitating labs and workshops, helping them troubleshoot and master complex concepts.

Summer Intern (Remote)

Optimal Solutions Nordic AB

06/2025 – 08/2025 | Remote

- Developed and maintained backend systems powering a production-ready chatbot in a startup environment.
- Wrote and optimized Azure SQL queries to manage and analyze conversation datasets efficiently.
- Collaborated remotely with cross-functional teams to deliver scalable backend features enabling data-driven chatbot insights.

📁 PROJECTS

IoT Smart Doorbell

Embedded Systems & Web Integration

- Simulated an IoT smart doorbell using Raspberry Pi / USB camera and Python web server, capturing images when the doorbell (GPIO switch) is pressed.
- Transferred captured images to a PC client via a web interface for remote decision-making (Allow/Deny access).
- Controlled green/red LEDs based on user input, demonstrating real-time interaction between embedded hardware and web-based interface.

Technical & Applied Projects

- Real-time line-following robot with sensor integration and motor control.
- Network analysis using Wireshark to monitor and debug traffic.
- PCB assembly and firmware development for embedded systems.
- Managed Azure MySQL databases with optimized SQL queries and efficient data handling.