Shwetha Rajesh

Computer Science and Engineering student

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🎓 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 Internet of Things**, with hands-on experience in backend development, SQL databases, and data analysis. Skilled in **cloud platforms, agile methodologies**, and **IoT hardware integration**. Passionate about solving complex problems and applying technology to real-world challenges across cybersecurity, embedded systems, and data-driven solutions.

💼 WORK EXPERIENCE

Android Developer (Kotlin) - Project in Collaboration with Industry Partner
Assimilatus AB
10/2025 – Present
- Developed a native Android app in Kotlin using MVVM, Jetpack Compose, Retrofit, Coroutines, Room, and Hilt, building clean, testable, and scalable features while integrating REST APIs and following modern best practices.
- Collaborated in a team of five with designers and backend developers through agile workflows, code reviews, and clear communication, optimizing performance 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.