

Orestis Georgiou

Computer Science Student at RWTH Aachen University

📍 Aachen, Germany / Latsia, Cyprus ✉ orestisg.cy@gmail.com 🌐 github.com/orestis2311

Profile

Computer Science student at RWTH Aachen University with practical experience in software development, embedded systems, and web technologies. Skilled in C, C++, Java, Python, JavaScript, SQL, and React, with experience in Git-based development. Interested in software engineering, AI, and software architecture, with an emphasis on reliable and maintainable systems.

Experience

CeraNext

Software Engineering Intern

Cyprus

October 2026 – Present

Education

RWTH Aachen University

Bachelor of Science in Computer Science

Aachen, Germany

2023 – expected 2027

Relevant coursework: Software Engineering; Data Structures and Algorithms; System Programming; Operating Systems; Databases; IT Security; Embedded Systems; Computer Networks.

Technical Skills

Programming: Java, C, C++, Python, SQL, JavaScript

Web & Data: React, Node.js, Solid Pods, RDF/Turtle

Systems: AVR microcontrollers, embedded systems, operating systems

Tools: Git, GitHub, GitLab, Linux, VS Code

Concepts: OOP, algorithms, data structures, relational databases, networking, testing, debugging

Selected Projects

Embedded Operating System for ATmega644

System Programming Lab – C, AVR

RWTH Aachen University

Winter 2024/25

- Built an embedded operating system in C in a two-person team, implementing interrupt-driven context switching, process management, critical sections, and CPU scheduling algorithms.
- Implemented dynamic memory management for internal and external SRAM, including allocation and reallocation.
- Integrated SPI, joystick, LCD, and LED-panel peripherals, demonstrating the system with an interactive Snake application.

Decentralized Fitness Data Platform

Data Ecosystems Lab – React, Solid, RDF

RWTH Aachen University

Winter 2025/26

- Developed React dashboard and recent-activity views showing fitness summaries and recorded routes using data stored in Solid Pods.
- Integrated React components with RDF/Turtle activity data stored in users' Solid Pods.
- Collaborated through a GitLab feature-branch workflow with teammates responsible for authentication, data conversion, and Pod-based storage.

Military Service

Cyprus National Guard

Special Forces – Katadromeis, Mandatory National Service

Cyprus

2021 – 2022

Completed mandatory service in the Special Forces, developing discipline, teamwork, resilience, and the ability to perform effectively under demanding conditions.

Languages

Greek: Native **English:** Fluent **German:** C1 **French:** B1