ZOHAIB ZAHEER

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SKILLS

- **Software Development** – Requirements Engineering; GitHub; Agile, Scrum; OOP, Data Structures
- **Programming Languages** – Python, C, C++, Java, Scala, Arduino
- **Cloud Services** – Azure Functions, Azure SQL, IoT Hub, Stream Analytics
- **Data** – Azure Data Studio, Database Management System (DBMS), SQL Server, MQTT

EXPERIENCE

Vrije Universiteit, Amsterdam • Teaching Assistant   *(10/2023) - (06/2024)*

- Graded assignments and taught tutorials for Statistical Methods and Software Engineering Processes.

GrwNxt B.V., Amsterdam • Software Engineer   *(07/2022) – (07/2023)*

- **Data Infrastructure Development**: Developed and maintained GrwNxt's data infrastructure in Azure, including a SQL database and its Entity Relationship Diagram (ERD), which ensured seamless data access and comprehension for other teams.
- **Automated Data Pipeline:** Developed a pipeline for data collection, cleaning, segmentation, and processing, using Python and serverless Azure services, which enhanced automation and efficiency.
- **Sensor Programming**: Programmed Arduino embedded sensors, in C++, for a 1000-plant experiment at the Netherlands Plant Eco-phenotyping Centre (NPEC).
- **Secure Automated Message Transfer:** Ensured secure transfer of messages over Wi-Fi using the MQTT protocol, eliminating the need for manual on-site data storage and handling.
- **System Architecture Design:** Integrated my data pipeline and data collection processes to GrwNxt's larger system design, establishing a design that is still used in GrwNxt growth modules.

EDUCATION

Vrije Universiteit, Amsterdam • Computer Science BSc   *(2021) – (2024)*

GPA: 8.1 | **Awards:** GLOBE Scholarship Recipient

Thesis Grade: 9.0 **–** *RC Modeler: Modeling Thermal Behavior of Processors in Discrete Event-Based Data Center Simulators*

Cambridge International School, Dubai • A Levels and IGCSE   *(2017) – (2021)*

A-Levels: 2A*, 1A; **AS-Level:** 4A, 1B; **IGCSE:** 7A*, 1A | **Extracurriculars:** Model UN, Debate Club, Head Boy, Hackathon.

HIGHLIGHTED PROJECTS

Cloud Resume Challenge: Full-stack project to host a static webpage on a cloud server; using Azure CDN for content delivery, Terraform to provision resources in Azure, and GitHub Actions to automate deployment.

Self-Driving Car (NXP): Programmed a self-driving car in C++ to participate in the NXP self-driving competition. Our team successfully completed the track at the regional level.