

Zain Ahmad

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Experience

PROCENTEC

Delft, The Netherlands

SOFTWARE ENGINEER

2020 – Present

- Built back-end software in C++ for industrial network analysis tools.
- Built front-end software in Angular, TypeScript and NodeJS to visualize data from the back-end.
- Sped up the development process by developing and implementing a cross-compiler to ARM, reducing build times from hours to minutes.
- Part of the DevOps team; maintaining the build pipeline and dev operations, contributed to the initiative to modernize CI to the cloud.
- Part of the technical debt team; contributed to and pushed for the modernization and clean-up of (deprecated, buggy, legacy) code and tools.

PROCENTEC

Wateringen, The Netherlands

SOFTWARE ENGINEER (INTERN)

2019 – 2020

- Research on the cloud and varying cloud providers.
- Assessment of embedded software and its features to be migrated to the cloud.
- Created a prototype that sends aggregated data from embedded software to AWS for analysis and visualization.

TNO

The Hague, The Netherlands

SOFTWARE ENGINEER (INTERN)

2017 – 2018

- Research on low-latency and highly scalable wireless protocols for embedded devices.
- Implemented a communication library for the ZigBee protocol.
- Created a prototype for a scalable mesh network using embedded devices.

Education

The Hague University of Applied Sciences

Delft, The Netherlands

HBO-ICT IN NETWORK & SYSTEMS ENGINEERING

2015 – 2020

Avans University

's-Hertogenbosch, The Netherlands

HBO-ICT IN SOFTWARE ARCHITECTURE (MINOR)

2018 – 2018

Skills

Programming Languages: C++, C, JavaScript/TypeScript, Angular, React, NodeJS, Python, CMake

Tools: Git, Linux, AWS, Agile

Projects

Raytracer

C++, CMake, Conan

IMPLEMENTED A RAYTRACER: A RENDERING TECHNIQUE TO CREATE COMPLEX 3D IMAGES WITH LIGHTING, SHADOWS AND REFLECTIONS.

<https://github.com/notzain/raytracer>

Chip8 Emulator

C++, CMake

IMPLEMENTED A CHIP8 EMULATOR: EMULATING OLDER HARDWARE WORK TO RUN AS SOFTWARE ON MODERN COMPUTERS.

https://github.com/notzain/chip8_emulator

Material Decoration BT

C++, Qt

CONTRIBUTED TO OPEN-SOURCE SOFTWARE FOR THEMING KDE, A LINUX DESKTOP ENVIRONMENT.

<https://github.com/notzain/material-decoration-bt>

Resume / Portfolio

React, JavaScript

AN ONLINE PORTFOLIO TO DISPLAY MY RESUME AND WORK, BUILT USING MODERN WEB TECHNOLOGIES.

<https://github.com/notzain/react-resume>