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papop.dev

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EXPERIENCE

Redcare Pharmacy| *Working student*

Aug 2023 - Present

A leading European online pharmacy and digital healthcare provider. Offers E-pharmacy services with reliable access to medication and healthcare product

- Developed automation tools to monitor and report frequent updates from Gematik regarding E-prescription requirements and structure, while automating daily and monthly reminder for key events, keeping the team informed and reduce manual effort.
- Established a dedicated testing environment for validating E-prescriptions, enabling early detection of compliance issue and improving development accuracy
- Created tools for data refactoring and bulk editing of E-prescriptions, including type conversion and field modification—streamlining test case generation and accelerating development process
- Create a script to extract and process information from the E-Health card data from the terminal device, convert it to a dedicated format and pass along to the team to use in testing and validation workflows

EDUCATION

RWTH Aachen University| *B.Sc Computer Science*

Oct 2022 – Sep 2025

- **Thesis:** Evaluating Automated Memory Management Strategies for Heterogeneous Architectures using Microbenchmarking

PROJECTS

HPC Application| *C++/OpenMP*

Oct 2024 - Jan 2025

- Collaborated in team of three to modified serial version of Sparse Matrix vector multiplication, Merge sort, and K-mean clustering to utilise the full potential of a cluster with parallel programming in OpenMP.

SPOS| *C/AVR*

Apr 2024 - Jun 2024

- Developed a custom OS for the ATMEGA664 microchip with integrated features like a scheduler, heap/stack memory management, and custom drivers.

Blade Defects detection| *Python/OpenCV*

May 2023

- Collaborated in a team of five to develop a program to detect defects on shaving blades (Philips) with accuracy of 96%. **2nd Place** at the **Fraunhofer Hackathon 2023**.
- Consolidated team code into a unified workflow, perform testing and extracted result with performance benchmarks and confusion matrix analysis.

Asclepius, ASL translator|*Python/OpenCV/Tensorflow*

Mar 2022 - Jun 2022

- Collaborated in a team of five to develop a program to translate American sign language to text.
1st Place at the **APAC Microsoft Hackathon 2022**.
- Leading the development, responsible for project planning team coordination and designing the core machine learning model.

SPACE AC|*Software Engineer*

Oct 2020 - Mar 2022

- **SPOROS**|*Arduino/C/Python/Qt5* Nov 2020 - Jul 2021
 - Develop a Cansat with 2 autorotating payload and groundstation. CanSat acting as a relay hub for the payload increasing the communication range in **Annual Cansat competition 2021, 3rd place**.
 - Responsible for the software of the entire operation along with designing the communication protocol in the mission.
- **Passenger Balloon**|*Arduino/C/Python* Oct 2020 - Mar 2022
 - Develop a series of High Altitude balloon long range cubesat device designed to collect atmospheric data.
 - Responsible for planning internal system and developing a software of the cubesat to collect and send the data back to the ground station.
- **Mentoring**|*Arduino/C/Python* Oct 2021 - Mar 2022
 - *Created a structured course and mentored new team members by providing hands-on training in fundamental programming, including the tech stack and guiding them through the complete development workflow.*

EXTRA CURRICULUM ACTIVITIES

Thai Studentenverein in Deutschland|*Technical support*

Apr 2023 - Apr 2025

- Supported event organization for Thai students in Germany during events and maintained the organisation's website

Assumption College Interact Club|*President*

May 2020 - Mar 2022

- Led a student-run volunteer club supported by The **Rotary International**, Organized annual events and initiated collaborative community service projects with other club

Assumption College Cheer|*Head of Computer department*

Aug 2019 - Mar 2021

- Led a technical team in designing and printing code system for large-scale collaborative card stunts in major events (the Jaturamitr 29th and Pope Francis in Thailand.).
- Providing technical support to ensure smooth visual display and team coordination

TECHNICAL SKILLS

- **Language:** Python, C/C++, Java
- **Framework:** CMake, CUDA, OpenMP, MPI

LANGUAGE

- **Thai:** Native speaker
- **English:** Working Proficiency
- **German:** C1 proficiency - able to communicate effectively in daily work settings and meetings.