

Zulius Roof

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Introduction

Software Engineer with a focus on Android development and product-oriented engineering. Experienced in building end-to-end applications with an emphasis on performance, offline-first design, and reliable real-world usage. Motivated by developing robust software that deliver value beyond purely service-dependent systems.

Experience

Android Engineer (R&D Internship), Ericsson – Karlskrona, Sweden July 2025 – Mar 2026

- Sole Android engineer for early-stage prototype development (3 months)
- Designed **offline-first** features using local persistence, sync strategies and **AES** encryption
- Reduced **QR code** scanning latency by 50% (1.28s → 0.63s) by integrating Google's ML Kit
- Improved app stability by redesigning **BLE** messaging protocol
- Enhanced first-launch experience by implementing runtime permission handling
- Built UI and features using **Jetpack Compose** following **MVVM** and **Clean Architecture** principles
- Collaborated with senior engineers and gained insight into production-level architecture decisions
- Worked with compliance-related **GitLab CI/CD** workflows and documentation

Lab Rat (Ambassador), Blekinge Institute of Technology – Karlskrona, Sweden Nov 2022 – June 2025

- Designed a hands-on **Raspberry Pi** workshop for industry guests, connecting software with sensors.
- Increased the enjoyment score from 3.5 to 4.36 by redesigning the troubleshooting programming workshop to focus on hands-on robot movement programming

AI Tester (Internship), Malvacom – Karlskrona, Sweden Jan 2024 – May 2024

- Ensured data privacy in **AI training** by building a data washer in **Python**, anonymizing 90% of personal information using regular expressions and manually configured filters
- Analyzed the average precision of our **GPT RAG** classifier to be 61% using customer-provided datasets

Java & Docker Developer (Internship), Ericsson – Karlskrona, Sweden Jan 2023 – May 2023

- Improved team productivity by introducing **Git** best practices and workflow improvements
- Decreased overall deployment time by implementing multithreaded dependency deployment in **Java**

Badminton Leader (Volunteer), KIDS – Karlskrona, Sweden Dec 2023 – Present

- Organized badminton activities for students, coordinating equipment, scheduling, and onboarding.

Projects

Bachelor Thesis on Generative AI diva-portal.org/smash/record.jsf?pid=diva2:1941180

- Explored **GPT-4's** Role in Automating and Assisting Researchers with Oscar Wystråle

Portfolio Website zulius.link | github.com/zuliusroolf/portfolio-template

- Built the entire website with **HTML, CSS, and JS** to understand the problems that other frameworks solve.

Education

Blekinge Institute of Technology, Karlskrona – BS in Software Engineering Aug 2020 – Feb 2025

Reykjavik University, Reykjavik – Exchange Studies in Software Engineering Aug 2023 – Dec 2023

Skills

Android: Java, Kotlin, MVVM, MVI, Clean Architecture, Jetpack Compose, Room, Gradle, BLE, NFC, QR

Robotics: Linux, Bash, Python, C/C++, Adafruit, Raspberry Pi, Embedded systems

Misc: Agile, Java, GitLab CI, LLM, RAG, HuggingFace