

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

Founder & Product Lead, ZulBit – Karlskrona, Sweden Sept 2025 – Present

- Architected an offline-first, privacy-centric fitness application using **Kotlin Multiplatform** (KMP)
- Defined the product roadmap, UI/UX design language, and core architecture for local data synchronization
- Managed the end-to-end lifecycle from conceptualization to prototype deployment

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

- Sole Android engineer for early-stage R&D prototype development
- Designed **offline-first** features using local persistence, sync strategies and **AES** encryption
- Improved app stability by redesigning **BLE** messaging protocol
- Built UI and features using **Jetpack Compose** following **MVVM** and **Clean Architecture** principles
- Worked with compliance-related **GitLab CI/CD** workflows and documentation

Lab Rat (Instructor), 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**

Projects

101% Workout App - *101percent.app*

- Getting people hooked on incremental healthy workouts, while respecting users privacy and mental health

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

- Explored the role of AI in automating and assisting academic research workflows (650+ downloads)

Portfolio Website - *zulius.dev* | *github.com/ZuliusRoof/portfolio-template*

- Custom-built responsive site using native **HTML/CSS/JS** to master core web fundamentals

Education

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

Reykjavik University, Reykjavík – 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