

Mohammed Qudah

Software Engineer

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Software engineer with 4+ years of experience, mostly in fintech. Looking to move into systems engineering. Most of my time outside work goes into systems programming, kernel and binary exploitation, CTFs, studying filesystems and database internals, and exploring the linux kernel. Open to relocating.

Full-Time Experience

Software Engineer

Jan 2022 — Sep 2024

Foodics — Pay

Amman, Jordan

- Joined as one of the first engineers on Foodics Pay, a fintech initiative launched within Foodics, and built the settlement engine that processes millions of transactions across regional banking integrations.
- Owned the system end-to-end: design, implementation, and ongoing reliability.

Software Engineer

Jun 2020 — Jan 2022

POSRocket

Amman, Jordan

- Started on the core product team, maintaining Point-of-Sale services powering the company's primary product.
- Transitioned to the external services team, building POSRocket's Developer Portal to expose its APIs to third-party developers.
- Built a new microservice to integrate online ordering channels (delivery apps, web orders) into POSRocket's order processing pipeline, streamlining multi-channel order ingestion.

Technical Skills / Keywords

no particular order.

Programming C, Rust, Python, JS, Zig

Systems Linux kernel internals, filesystems & database internals, eBPF, glibc malloc internals, TCP/IP networking

Security Binary & kernel exploitation, CTF (pwn / web / kernel categories)

Infrastructure Kubernetes, self-hosting

Projects

- **Filesystem Toolkit**: studying and experimenting with Linux filesystems: inspect extents, page cache, benchmark data sync methods, observe fsync error handling.
- **Toolup — Kernel Build & C Toolchain Manager**: manages C toolchains and Linux kernel builds across versions/configurations, with cross-compilation.
- **QEMU Emulation — I2C Controller & SSD1306 Display**: custom QEMU devices built from scratch, exercising the device model and MMIO/interrupt handling.
- **Container Implementation**: a minimal tool for spawning commands inside containers using Linux namespaces, built from scratch for learning.
- **Homelab**: self-hosted Kubernetes cluster running personal services, started as a project to study for the CKA exam, which I passed after 1 month of experimenting.

Other projects include a [network driver for XV6](#), and a [tool](#) to test the behaviour of different Python type checkers.

Security Research / CTF

- Placed #11 worldwide at Black Hat MEA CTF (2025).
- Kernel exploitation: reproduce and analyze Linux kernel CVEs, covering allocator internals, heap spray primitives, and cross-cache attacks.
- CTF competitor and challenge author across pwn, web, and kernel-exploitation categories; completed the pwn.college “blue-belt” track.
- Hosted 3 university CTF competitions and delivered in-person training on pwn and web exploitation.

Education

Applied Science University – Bachelor of Science in Computer Science

Amman, Jordan