

ZAKKARIJA MICALLEF

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SUMMARY

A tech-savvy tinkerer and seasoned developer with multiple years of production-code experience. A curious individual who designs and builds innovative solutions, turning messy ideas into clean, dependable software. Highly motivated and passionate about honing my craft.

SKILLS

Proficient: Java, Spring, Git

Advanced: Python, Linux, Mongo, Maven

Intermediate: ML, OpenCV, C, Docker, SQL

Working Knowledge: JavaScript

CERTIFICATIONS

AWS Certified Cloud Practitioner — 2025

Malta National Cyber Security Challenge — Finalist, 2021

Malta AI Hackathon — 3rd Place, 2019

EXPERIENCE

PhoenixNAP (CCBill)

2021–2023 (Full-time) / 2023–Present (Part-time)

Software Engineer

Malta

- Championed (led) features such as RAID support and custom operating system provisioning for the Bare-Metal-as-a-Service platform by coordinating developers, UI designers, testers, and site reliability engineers from planning to deployment.
- Built an internal two-step server boarding tool that integrated complex internal authentication and multi-database management, significantly reducing daily setup time for developers.
- Served as the go-to resource for new and experienced engineers, directing onboarding, clarifying project architecture, and supporting feature areas I own.

CCBill

2018 – 2021

Software Engineer Intern

Malta

- Contributed to an internal employee management tool as part of a small intern team, working across front-end, back-end, database, deployment, and ongoing support.
- Worked with product owners to shape sprint priorities and gained experience in Java, Spring, Maven, SQL, and JavaScript.
- Researched and implemented new features for the employee management tool, including Word document upload and parsing, dashboard design and implementation as well as speed improvements.

EDUCATION

University of Amsterdam & VU Amsterdam

2023 – Present

MSc Computer Science

Amsterdam

- Followed the "Systems for Large-Scale Applications Track" with a focus on High Performance Computing, Parallel Programming and Distributed Systems.
- Completed advanced coursework such as Cryptographic Engineering, where encryption methods were implemented in C, Assembly, and Verilog.
- Conducted dissertation research in MLOps using MLflow and Kubeflow, developing an automated end-to-end pipeline from model training through deployment.

University of Malta

2018 – 2021

BSc IT (Hons) in Artificial Intelligence

Malta

- Gained experience in planning and organizing research-based tasks and worked on projects that covered core topics such as software design, machine learning, and game development.
- For my final year thesis, I used Computer Vision in a novel project to predict which products in a scene will attract customer attention first which resulted in an A.

LANGUAGES

Maltese (Native) · English (Fluent) · Moroccan (Conversational) · French (Basic)