

Saliba Rishmawi

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SUMMARY

Computer Science graduate with a strong focus on machine learning, computer vision, and data-driven problem solving. Developed an AI-powered brain tumor detection system achieving an 80.55% Dice Score, and co-founded CodeFusion, a team building AI-driven tools and software solutions. Skilled in Python, Java, and data analysis, with international experience in Germany and a proven ability to turn complex challenges into impactful real-world applications.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, HTML, CSS, JavaScript, PHP, React Native, C, C++, C#, Assembly, R, Bash. | **Libraries/Frameworks:** PyTorch, U-Net, nnU-Net, Flask, PyQt, NumPy, NiBabel. | **Databases:** MySQL, SQLite. | **Tools & Platforms:** Git/GitHub, VS Code, VirtualBox, Windows Server, Wireshark. | **Areas of Expertise:** Machine Learning, Deep Learning, Computer Vision, Data Analysis, Software Engineering, Web Development, Virtualization, Networking, Cybersecurity Basics. | **Hardware and Embedded Systems:** Arduino Programming, NAS Server Setup.

TECHNICAL PROJECTS

MRI Brain Tumor Detection System | [Link](#)

- Developed an AI-powered system using U-Net to segment and classify brain tumors from 3D MRI scans, achieving an 80.55% Dice Score on the BraTS2020 dataset. Led the full pipeline from data preprocessing to result visualization using Python, PyTorch, and related tools.

Home NAS Server Build

- Designed and assembled a personal NAS server for data backup and file sharing, optimizing hardware and software for reliability. Configured RAID, networking, and system monitoring using Linux, VirtualBox, and NAS tools.

Autonomous Car

- Collaborated with a team to design and build a small-scale autonomous car, implementing obstacle detection and autonomous navigation. Utilized Raspberry Pi, LIDAR, Python, and 3D modeling tools.

Liquid Hydrogen Tank Storage System Research

- Collaborated with a multidisciplinary team to design an SRS, P&ID, and market research for a liquid hydrogen tank storage system. Conducted technical analysis, feasibility assessment, and coordinated documentation using engineering and research tools.

EDUCATION

Bachelor of Science in Computer Science - Al-Quds University

2025

Exchange Semester:

April 2023 -

July 2023

Hochschule für Technik und Wirtschaft des Saarlandes (HTW Saar), Germany

- Completed an exchange semester focused on computer engineering, internship at an engineering company, and interdisciplinary collaboration.

Summer Program - Fab Lab Siegen, Germany

August 2024

- Participated in a technical and entrepreneurial 2 week program with the first week covering 3D printing, CNC machining, vacuum molding, and the second startup development.

PROFESSIONAL EXPERIENCE

CodeFusion - Co-Founder:

March 2025

- Co-founded CodeFusion, a software development team focused on mobile/desktop apps, web development, AI/ML tools, and automation. Led projects using Git and Agile practices, ensuring quality delivery, and currently developing the team's portfolio website.