Amjad Alsharafi

Software Engineer

🔄 me@amjad.alsharafi.dev 🕜 amjad.alsharafi.dev 🛛 📊 Amjad Alsharafi 🌔 Amjad50

PROFILE

Passionate Software Engineer with expertise in developing low-level systems, specializing in kernels, graphics systems and embedded. Skilled in creating fast and secure solutions, with a strong focus on security and malware analysis to uncover vulnerabilities and protect against attacks

SKILLS

Programming

Rust, Golang, C++, JS/TS, Python, Dart

Artificial Intelligence

Training and deploying models, Classification, Image processing

Linux and System Administration Linux environment, Shell, Setup, Maintenance

PROFESSIONAL EXPERIENCE

GPU programming OpenGL, Vulkan, Shaders, Compute

DevOps and Cloud GCP, AWS, Docker, CI/CD

Reverse Engineering Reversing Malware, Malware Analysis, Dynamic and Static Analysis

 Rust System Developer, VideowindoW Built robust audio sync system in Rust to synchronize display with mobile phones. Created a web rendering engine that uses GPU to accelerate web rendering and Innovated visually-stunning creativity displays by developing intricate GPU shaders. Skills: Rust, GraphQL, Linux Drivers, Graphics programming 	Mar 2022 – present Netherlands
 Security Researcher, WithSecure & Conducting research on malware detection techniques and creating novel solutions to detect advanced threats. Leading research efforts to develop intelligent systems that can detect and prevent malware attacks on enterprise networks. Skills: Reverse Engineering, Splunk, Vulnerability Analysis 	Aug 2022 – present Malaysia
 Lead Software Engineer, Mashag Technology Leading the development of a scalable real-time weapon detection system from CCTV feeds using Microservices design. Optimizing the system's performance through efficient use of hardware resources and parallel processing, while considering budget constraints Skills: Python, RabbitMQ, Docker, PyTorch, OpenCV 	Nov 2022 – Aug 2023 Malaysia
 Software Engineer, University Malaya Developed a system to connect doctors in UM Hospital with Patients through chat, with several features to monitor the condition of Covid-19 patients and alert doctors on urgent cases. Skills: Golang, ProtoBuf, JWT, Rest API 	Feb 2021 – Nov 2021 Malaysia

SOCIAL EXPERIENCE & VOLUNTEERING	
Guest Lecturer, University of Tripoli Performed Lectures on Flutter App development and GIT version control system.	Feb 2021 – Mar 2021
Head of Contest Protocol, Programming League National 2020, University of Malaya Volunteering in organizing a programming contest in the university. Was responsible of managing the questions of the contest as well as the hosting server of the competition and backend operations.	Sep 2019 – Feb 2020
PROJECTS	
Emerald, Operating System ⊘ Create an Operating System from scratch in Rust	
See my portfolio 🔗 for more projects not listed here	
Trapezoid, <i>PSX Emulator ∂</i> Playstation1 Emulator in Rust, high accuracy and performance.	
Mizu, Gameboy Emulator ♂ Very accurate and highly performant GameBoy and GameBoy Color emulator in F	Rust.
Rust-lang/Rust, The Rust programming language compiler <i>∂</i> Made some contributions to the Rust compiler	
Vulkano, Safe and rich Vulkan API wrapper in Rust. <i>P</i> Made several contributions to vulkano while working on other GPU related project	rts.
Dynwave, Audio Player library ∂ Cross platform Audio player library for real-time streaming audio with auto resam	npling
Blinkcast, Fast Broadcast channel primitive for Rust ⊗ Fast, Lock-free, Bounded, Lossy Rust broadcast channel/ring buffer with `no_std`	support
Mathematical expression image-to-LaTeX generator, Research Project aims to develop an AI system capable of converting typed mathematical e format. Uses Computer Vision and machine learning algorithms.	expressions into LaTeX
EDUCATION	
Bachelor in Computer Science (Artificial Intelligent), University Malaya ⊗ CGPA: 3.88 (Deans award)	Sep 2018 – Feb 2022 Kuala Lumpur, Malaysia

LANGUAGES

• English

• Arabic