Yasir FAYROOZ
Software Engineer | Cyber Security

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A technology-agnostic software developer with a robust skill set encompassing languages like C#, Python, Rust, and front-end frameworks such as Angular and React. I have extensive expertise in software development and the implementation of complex data structures and algorithms when necessary $ABIGadvocateforcodesimplicity$. I've been instrumental in designing towards clean architecture, leveraging domain-driven design principles. I hold a Bachelor's degree in Computer Science from RMIT University and additional studies in IT Security & Criminology from Deakin University.

☰ SKILLS

Programming	C#, **Python**, **Rust**, **Rust**, **Typescript**, Javascript, HTML5 & CSS3, Java
Frameworks	**React**, **Angular**, **.NET**, Next.JS, OAuth/OIDC, Tailwind, Langchain, Semantic Kernel, Spring/Spring boot
Databases	**SQL Server**, **PostgreSQL**, **Elastic Search**, **Redis**, **CosmosDB**, MongoDB, Pinecone, Qdrant, Azure AI Search
Tools	**Rider**, **Visual Studio**, **VS Code**, **Cargo**, **git**, **Node**, Eclipse, Maven
Cloud	**Azure**, Google Cloud, App Services, Service Bus, Blob storage, APM, Azure Functions
Operating systems	Mac OS X, Windows Server, Windows, Android, Linux distros (Kali Linux)
Other	Clean architecture, Microservices, Event Driven Architecture, Docker, OpenAI

💼 PROFESSIONAL EXPERIENCE

Present September 2024	**Senior AI Engineer	Senior, AGILE INSIGHTS, Remote** > Lead the development of our cutting edge AI solution Agile AI-One used by government agencies. Contributed to existing open source projects & internal IP. > Using Azure AI Services & Document Intelligence to process documents with OCR extracting capabilites and Speech Intelligence for voice to text translation. Utilising Semantic Kernel with yaml Handlebars prompting to develop agents and agentic applications. > Implementing safety features with Azure Open AI which includes Content Filtering and Prompt Injection Shielding to ensure safe and secure use of Gen AI. > Maintained the backend solution architecture for our internal AI project utilising DDD and Clean Architecture principles with .NET Minimal APIs and AI chat event streaming. > Coordinated the integration of Semantic search/Hybrid search & RAG techniques in Azure AI Search. Developed a powerful custom indexing solution for data ingestion from blob storage. Applied a Message-Queue for heavy write scenarios to be able to ingest thousands of files with minimal load and redundancy support. `.NET 8` `MediatR` `CQRS` `Semantic Kernel` `Azure AI Search` `Document Intelligence` `Speech Intelligence` `Azure AI Services` `CosmosDB` `React` `DDD` `Generative AI` `Message Queues` `Azure Service Bus`
Present August 2023	**Founder	CEO, GITYAS, Remote** > Founder of a cross-platform Git GUI desktop application built with a Rust backend & a React Vite frontend using ShadCN & Tailwind CSS components. > Implemented OAuth2 with GitHub integration for connecting to repositories, viewing commits, pushing, merging, branching, tagging and stashing. > Using advanced data structures and algorithms to implement a directed acyclic graph to visualise commits on a HTML canvas. > Achieved efficiency using crates such as notify-rs to implement operating system level file listeners to listen to file changes and provide real time UI feedback. > Working with asynchronous functions using tokio, idiomatic error handling using anyhow, lifetime and borrowing management rules on Rust & secure key storage on operating systems credentials storage using the keyring crate. `Rust` `Tauri` `crates` `React` `Vite` `tokio` `git2-rs` `notify-rs` `serde` `keyring` `reqwest` `anyhow`

September 2024 **August 2022**	.NET Developer & AI | Mid-Senior, PREEZIE, CBD Melbourne

> Championed the AI project at preezie, leveraging semantic kernel and facilitating monthly Microsoft meetings from Redmond USA to remain at the forefront of technology advancements in Generative AI. Implemented advanced prompt engineering techniques, Vector search with embeddings, Retrieval Augmented Generation (RAG), AI Agents, Semantic search and more.
> Developed innovative solutions using microservices and clean architecture, enhancing existing legacy systems while integrating modern technologies like Angular and React for both backend and frontend development.
> Solely migrated large scale analytics data to a more cost effective cloud architecture, reducing monthly expenses by 40% with minimal downtime.
> Single-handedly re-architected and optimized a critical legacy software system, improving and cutting import speeds by over 50% and ensuring future scalability while collaborating closely with senior leadership. Lead backend developer for a successful new product, nextbuy, contributing to significant ARR growth and achieving cash flow positivity.

.NET 6/7/8 | Elastic Search | Redis | CosmosDB | Semantic Kernel | React & Angular | PostgreSQL | DDD | Artificial Intelligence

August 2022 **March 2021**	Software Engineer, MOTOROLA SOLUTIONS, Burwood Melbourne

> Co-developed a multi-tenancy-enabled full-stack solution for CrimeStoppers Tasmania's online crime reporting platform, garnering media recognition and awards. Designed for public anonymity, the platform features real-time report processing, media upload capabilities, and advanced management tools.
> Modernized a legacy product to enhance customer service, transitioning it from a Winforms application into a web application with fine-grained permission controls and Google account authentication. Improved productivity and decreased support needs significantly.
> Managed over-the-air updates for RACV-owned tablets, implementing necessary software patches and security updates through client liaison, ensuring device functionality and security compliance.
> Working closely with mission-critical clients such as Ambulance Victoria, Victoria Police and Fire Rescue Victoria doing UAT Tests for software patches. Following close guidelines and liaising with staff to ensure efficient speedy delivery of patches.
> Developed a web application to efficiently configure hundreds of routers to be installed in Ambulance Victoria vehicles. The app performed various file I/O reading and writing in an easy to use user interface.

.NET 5/6 | Angular | MongoDB | SQL Server | OAuth2.0 | Identity Server | Devops | CI/CD | WPF | Winforms

March 2021 **January 2021**	Software Developer, TRADE VIEW, St Kilda Melbourne

> Developing and testing algorithmic trading bots using key indicators and various tactics learned during the job.
> Addressing customer support tickets on a daily basis. Assisting customers with their algorithms and debugging code.
> Adding features to their custom developed CMS system.
> Helped develop and launch a crypto trading site integrating live feeds and price tracking.

Metatrader 5 | C | C# | React | Zoho

🌐 LANGUAGES

English ●●●●●
Arabic ●●●●○

➕ ACHIEVEMENTS

> Attendee of 2022 NDC Melbourne's Software Developer conference 5 day pass
> 3rd place from 74 teams total. Best AI developed at RMIT. Used A* Search, Expectimax & Reinforcement Learning/Q-Learning with function approximation
> Developed and hosted my own terminal themed portfolio site from scratch

🎓 EDUCATION

2018-2020	Bachelors degree in **Computer Science** @ Royal Melbourne Institute of Technology (RMIT) University
2014-2017	Bachelors degree in **IT Security** @ Deakin University Burwood Campus
2014-2017	Bachelors degree in **Criminology** @ Deakin University Burwood Campus

💻 PROJETS

Portfolio

🔗 www.yasirfayrooz.com

Created my own terminal themed portfolio website to refresh my front-end developing skills in my own time.

`Next.Js` `React` `Tailwind CSS` `Firebase` `Cloudflare`

66 REFERENCES

Adam Stephenson
AI Lead, AGILE INSIGHTS
@ Provided on request
☎ Provided on request

Zen Farhat
Fullstack Developer & SS Manager, FRONTEND SIMPLIFIED
@ Provided on request
☎ Provided on request