

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 bring extensive expertise in software development and architecture. I've been instrumental in spearheading the transition towards asynchronous event-driven microservices, leveraging domain-driven design and clean architecture principles. I hold a Bachelor's degree in Computer Science from RMIT University and additional studies in IT Security & Criminology from Deakin University, I combine academic rigor with hands-on experience to drive impactful software solutions.

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 <ul style="list-style-type: none">Developed cutting edge AI solutions for government agencies using existing open source projects & internal IP.Using Azure AI Services & Document Intelligence to process documents with OCR extracting capabilities 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 AI.Lead the backend solution architecture for our internal AI project utilising the latest DDD and Clean Architecture principles with .NET Minimal APIs and AI chat event streaming.Implemented the latest Search & RAG techniques in Azure AI Search. Importing data from blob storage and using skillsets to extract and generate embeddings. <div><div>.NET 8</div><div>Semantic Kernel</div><div>Azure AI Search</div><div>Document Intelligence</div><div>Speech Intelligence</div><div>Azure AI Services</div><div>CosmosDB</div><div>React</div><div>DDD</div><div>Artificial Intelligence</div></div>
September 2024 August 2022	.NET Developer & AI Mid-Senior, PREEZIE, CBD Melbourne <ul style="list-style-type: none">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. <div><div>.NET 6/7/8</div><div>Elastic Search</div><div>Redis</div><div>CosmosDB</div><div>Semantic Kernel</div><div>React & Angular</div><div>PostgreSQL</div><div>DDD</div><div>Artificial Intelligence</div></div>

August 2022
March 2021

Software Engineer | Graduate, 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 | Junior, 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

GITYAS

2023 - PRESENT

 github.com/yasir-fayrooz/GitYas - private repository

Creating my own Git GUI cross-platform desktop client as a spare side-hobby learning project using the Tauri framework with a React Vite frontend and Rust on the server side. Learned to code in Rust from scratch over time.

Rust Typescript Javascript Tauri Cargo Node Tailwind Visual Studio Code

PORTFOLIO

2022-PRESENT

 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

SWORDLIFE

2020

 github.com/yasir-fayrooz/Swordlife

Created a game using Unity and published on the Google Play store for a short period in a team of 6 people for a capstone project at university.

C# Unity Android Google Play Aseprite

“ REFERENCES

Danny Wang

Head Of Technology, PREEZIE

@ Provided on request

📞 Provided on request

Zen Farhat

Fullstack Developer & SS Manager, FRONTEND SIMPLIFIED

@ Provided on request

📞 Provided on request