

Xavier Julies

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Software Developer with experience in developing web applications, Windows applications and backend systems. Top Skills vary from React to .NET framework.



Top skills

JavaScript React Node.js Docker Express.js PostgreSQL Jasmine C# .NET Next.js

Summary

About

Passionate Software Engineer with 3+ years of experience in developing web applications, Windows applications and backend systems. Experienced in working with both small and large teams across multiple projects and companies. Able to work independently in remote locations or in office environments as needed by the company.

Ideal next job

I am seeking a team where I can blend back-end and front-end development, and apply my experience and skills effectively. In the long term, I am eager to solve problems for companies through full-stack development and collaborative teams.

I enjoy working on full-stack development and am looking forward to collaborating with teams of any size, as long as they are well-integrated and organized. It's important to me to join a team that is passionate about their work, open to having fun, and unafraid to experiment and explore new ideas.

A flexible work schedule is essential for me. I don't want to be in an environment where I have to clock in and out, or constantly be monitored. I thrive in a work environment that trusts me to get the job done to the best of my ability. Such an environment will allow me to contribute effectively to the team's success.

Work experience

 Sep 2024 - Present
Radium (Product Owner/Software Developer)

ASP.NET C# MQTT Blazor WPF Windows Forms Microsoft SQL Server .NET
ASP.NET Web API ASP.NET MVC Visual Studio

Summary

In my role as a product owner and software developer, I manage three key projects, focusing on the development of innovative software solutions and integration plugins for Milestone systems. Furthermore, I collaborate with a dedicated small team to create a comprehensive web portal tailored for efficient software license management.

Projects

SAFR Integration

- I oversee the complete lifecycle of the SAFR integration process, starting from engaging with clients to gather requirements, all the way through designing, developing, and delivering the corresponding plugin.
- My work involves direct interaction with SAFR cameras, enabling precise data acquisition and management.
- Utilising the ONVIF protocol, I visualise critical data within the Milestone Video Management System (VMS), ensuring that users can interpret information effectively.
- I develop Windows services that facilitate seamless communication between different system components, manage user authentication, and process essential metadata in real-time.
- Through extensive analysis of the metadata collected, I generate queryable results that provide valuable insights and enhance user comprehension.
- I utilise Windows Presentation Foundation (WPF) to create engaging front-end visualisations that enhance user experience.

- For the back-end, I use C#, which allows me to efficiently process ONVIF metadata, ensuring that data is handled accurately and swiftly.
- To keep users updated, I set up alarm definitions that trigger preconfigured alerts based on specific events, enhancing overall system responsiveness.

Radium Classifier

This project contains the development of a plugin focused on Axis cameras, specifically designed to calculate and analyse the number of objects moving in and out of designated areas to yield valuable insights into traffic patterns.

- Initially, I faced significant challenges in facilitating effective communication of data between disparate systems. To address this, I implemented a robust MQTT publish/subscribe service, ensuring continuous connectivity among cameras, seamless metadata transfer, and enhanced monitoring capabilities.
- I designed a Microsoft SQL Server database, complete with stored procedures to guarantee that the backend infrastructure remains robust and is consistently updated with real-time analytical data sourced from the cameras.
- Additionally, I developed an intuitive front-end interface for the Management Client (Admin), which allows administrators to set up the cameras' MQTT configurations and database connections while managing software licenses.
- The Smart Client (User) features an interactive data visualisation interface that includes dynamic charts for live updates, alongside scheduled visualisations powered by stored procedures.
- To further enhance user experience and accessibility, I developed PDF and Excel reports that allow users to export data in a visually appealing manner, encouraging informed decision-making.

Radium Fire

This initiative centres around the development of a plugin that integrates Fire Panels, providing real-time data visualisation and alert notifications for fire-related events.

- I undertook the challenge of redesigning and rewriting an existing plugin, updating every aspect from the underlying database structure to the user interface for enhanced functionality and user experience.
- To ensure that the revised plugin met user expectations, I gathered insights and feedback from customers on desired features and improvements.
- To validate the proposed redesign, I created a Minimum Viable Product (MVP) that demonstrated the plugin's capabilities and its potential to deliver enhanced performance.
- To support integration with an older software development kit (SDK), I developed a 32-bit Windows Service that maintains compatibility while employing Named Pipes for efficient inter-process communication (IPC) between the service and the plugin.
- Additionally, I integrated alarm functionalities into Smart Map (Google Maps), enabling users to visualise the locations of fire panel devices and receive instant notifications when alarms are triggered, thereby improving situational awareness and response times.

General

Besides my projects, I try to assist my team with additional code snippets and knowledge sharing.

- I assist my team with Milestone SDK information and provide templates and UI components to simplify plugin development.
- I follow the MVVM architecture while also introducing vertical slice architecture to make it easier for development.

 May 2023 - Sep 2024
TaskForge (Product owner)

[React](#) [Firebase](#) [Jasmine](#) [GitHub](#) [Vanilla JS](#) [HTML5](#)

TaskForge Chrome Extension

I created a Chrome Web Extension called TaskForge to enhance productivity and improve the effectiveness of sprints and daily stand-ups for students at Umuzi. TaskForge is a task management tool that also includes reporting features, allowing team leaders to easily monitor their students' progress without leaving their browser tab. This tool makes information readily accessible just one minute before a sprint or stand-up, eliminating the need for follow-up with students or requiring additional requests.uest manual reports.

Jun 2023 - May 2024

Momentum Metropolitan Holdings (Developer Intern)

ASP.NET MVC

Blazor

.NET

ASP.NET Web API

ASP.NET Razor

C#

Telerik UI

Microsoft SQL Server

Azure

GitLab

Visual Studio

During my internship, I had the fantastic opportunity to work on exciting projects. One of the highlights of my experience was developing API endpoints using ASP.NET Web API to interface with the database. This allowed for more efficient data communication between the application and the backend.

I used Blazor and Telerik UI components to create visually appealing interfaces while managing CRUD operations. It was rewarding to see these technologies come together to deliver user-friendly solutions.

We used GitLab for version control and Azure for project orchestration, from sprint planning to deployment.

Our data infrastructure's backbone, Microsoft SQL Server, made everything possible. Its power and reliability allowed us to store and retrieve data efficiently and contributed to the overall performance and reliability of our applications.

During my internship, I had a range of tasks to complete, such as creating API endpoints, designing and implementing user interfaces, and working with my team to reach project milestones.

My internship was a valuable experience where I gained hands-on knowledge of various technologies like ASP.NET Web API, Blazor, Telerik UI, GitLab, Azure, and Microsoft SQL Server. The journey I went on was a time of learning and personal growth. It challenged me to expand my skill set and step out of my comfort zone.

May 2023 - May 2024

Umuzi (Full Stack Developer)

JavaScript

Node.js

npm

Express.js

Docker

React

PostgreSQL

SQL

HTML

CSS

API Design

Jasmine

Tailwind CSS

Framer

Unit Testing

Redux

Redux Thunk

GitHub

Visual Studio Code

I have acquired a wide range of skills, including object-oriented programming, test-driven development, clean code architecture, and version control using Git and GitHub. Additionally, I have gained proficiency in backend development using Node.js and Express, as well as Behavior-Driven Development (BDD) with Jasmine for JavaScript. Furthermore, I have learned about relational and non-relational databases, such as PostgreSQL, and how to use HTML, TailwindCSS and CSS for web design. I have also developed problem-solving abilities and the capacity to handle multiple tasks concurrently with minimal supervision. Moreover, I have been proactive in acquiring knowledge of new technologies and offering innovative technical solutions.

Dec 2023 - Mar 2024

Umuzi (Junior Tech Lead)

Teamwork

Agile

GitHub

Kanban

Team Building

Unit Testing

Jasmine

Jest

- Establish supportive, one-on-one relationships with learners in the programs.
- Guide learners on professional behaviour and communication skills.
- Facilitate agile meetings, such as stand-ups, sprint planning, mid-sprint check-ins, and retrospectives.
- Help learners overcome obstacles in their educational journey.
- Cultivate an environment where learners collaborate, share knowledge, and promote teamwork and agile best practices.
- Maintain open communication with the Learner Journey Manager and Learner Journey Coach regarding learner progress, attendance, issues, and necessary interventions.
- Monitor and track learner progress while ensuring the accuracy and quality of learner data.

Apr 2022 - Jul 2022

InfuseMedia (Web Design)

HTML

CSS

HTML5

- Customize templates within the constructor to ensure a tailored and cohesive design.

- Utilize templates to craft visually appealing and functional landing pages.
- Create eye-catching banners to enhance the visual appeal of web pages and promotional materials.
- Revise and enhance existing email templates and newsletters by updating text, images, and buttons to improve engagement and usability.
- Develop new and innovative email templates to align with specific marketing campaigns and goals.
- Utilize HTML and CSS to ensure seamless and professional presentation across various digital platforms.

Nov 2016 - Apr 2022
Gijima (Field Service Engineer)

Agile Teamwork Scrum SDLC

- Configure and maintain Point of Sale devices.
- Ensure client satisfaction and meet their needs.
- Manage call-outs promptly and attend within the agreed Service Level Agreement (SLA).
- Keep clients informed of estimated times of arrival (ETA).
- Troubleshoot via phone calls and escalate to 2nd line support when necessary.
- Conduct monthly stock take of equipment.

Education

Unisa Diploma in Information Technology	Jan 2021 - Dec 2025
Umuzi National Certificate in IT (Systems Development)	Jan 2023 - May 2024
Tulbagh High Senior Certificate	Jan 2008 - Dec 2014

Personal info

Citizenship: **South Africa**

Authorized to work in: **South Africa**