

# Mwazvita (Maurice Junior) Mutowo

## Lead Software Engineer

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### SUMMARY

Dynamic and results-driven .NET Software Engineer with over 5 years of experience designing and implementing scalable, high-performance solutions. Proficient in Microsoft technologies, cloud platforms (Azure), and RESTful architecture, with a proven track record of leading cross-functional teams to deliver critical projects on time and within budget. Adept at aligning technical solutions with business goals, fostering stakeholder relationships, and mentoring junior developers. Passionate about driving innovation in the financial and technology sectors through robust, secure, and efficient software systems.

### SKILLS

#### Technical Skills

- Front-End: HTML, CSS, JavaScript, React.js, JQuery, Bootstrap
- Back-End: C#, VB.NET, ASP.NET Core, Entity Framework Core, RESTful APIS
- Database: SQL Server, Complex Queries, Performance Optimisation, Troubleshooting
- Cloud: Microsoft Azure (Certified), Continuous Integration/Deployment (Jenkins, Octo Deploy)
- Development Practices: SOLID Principles, Test-Driven Development (TDD), Microservices Architecture
- Design Patterns: Singleton, Factory, Builder, Dependency Injection, Adapter, Command.

#### Agile Project Management

- Sprint Planning and Execution, Backlog Refinement, Stakeholder Management
- Cross-Functional Team Leadership, Risk Management, Effective Communication
- Monthly client billing and invoicing, PowerBI team velocity breakdown.

#### Soft Skills

- Leadership and Mentorship, Strong Communication, Critical Thinking, Attention to Detail, Time Management, Public Speaking

### EXPERIENCE

#### Lead Software Engineer

**Singular Systems: October 2023 - Present, Cape Town**

**Development Tech Used:** HTML, CSS, JavaScript, SOAPUI, JQuery, Bootstrap, C#, ASP.NET, SQL, CSS, Azure, Github, Jenkins, Octo Deploy, Figma

- Successfully led a team within the company's largest banking client project, acting as a Technical Analyst to oversee a comprehensive system rewrite. Delivered the project on time and to high technical standards, despite challenges posed by shifting team composition over the 12-month duration. The rewrite significantly improved system scalability and performance and allowed fund managers to offer a wider array of investment options for their customers.
- Concurrently led a second team as a developer in the expansion of a new marketplace feature for government securities, expanding the existing marketplace into a more robust and versatile platform. Delivered this feature in under a year (compared to years of development for the original system), with successful completion in January 2025, providing a more efficient solution for buying and selling diverse securities. This included multiple API integrations for real-time market data analysis and reporting of trades on the platform.
- Negotiated a 10% increase in client rates, generating an additional R22,500 in monthly revenue for the company.
- Mentored two junior developers, equipping them to independently manage key tasks within six months, fostering growth and enhancing team productivity.
- Spearheaded the development of real-time market data analysis and live notifications, significantly enhancing platform responsiveness and improving the user experience.
- Championed the adoption of Agile practices across teams, increasing sprint velocity by 15% and improving stakeholder engagement and satisfaction.

#### Software Engineer

**Singular Systems: October 2022 - October 2023, Cape Town**

**Development Tech Used:** HTML, CSS, JavaScript, JQuery, Bootstrap, C#, ASP.NET, .NET CORE, React.js, SQL, CSS, Azure, Bitbucket, Jenkins, Octo Deploy, Figma

- Spearheaded security improvements during two cycles of penetration testing, implementing key fixes such as multifactor authentication, cross-site scripting blockers, CORS policy extensions, and additional security headers to enhance platform resilience and compliance.
- Transitioned to a lead role amidst client budget constraints, ensuring the continued delivery of high-quality solutions and maintaining team morale and productivity.
- Played a pivotal role as a software engineering resource during the Phase 0 planning of a cross-company project valued at R10 million, contributing to architectural design, tech stack selection, and the analysis of functional and non-functional requirements.
- Designed and implemented a sophisticated tenant system, enabling seamless user login across multiple client accounts, significantly improving platform flexibility and usability.
- Built an intuitive document storage system, leveraging React.js and Microsoft Azure Blob Storage to mimic Google Drive-like functionality, including uploading, organising, and accessing files through a user-friendly interface.
- Proactively managed disasters and production issues, ensuring uninterrupted operational continuity and minimising downtime.
- Facilitated the onboarding of senior resources, strengthening team capacity and accelerating project delivery timelines.
- Demonstrated strong leadership and expertise in Agile methodologies, guiding teams through project lifecycles with a focus on collaboration, transparency, and iterative improvements.

### **Associate Software Engineer**

**Singular Systems: October 2021 - October 2022, Cape Town**

**Development Tech Used:** *HTML, CSS, JavaScript, JQuery, Bootstrap, C#, ASP.NET, VB.NET, SQL, CSS, Azure, Bitbucket, Jenkins, Octo Deploy, Figma*

- Optimised complex SQL queries, achieving a 30% reduction in database response time, which significantly improved system performance and user experience.
- Extended internal libraries to accommodate client-specific requirements, reducing development time for new features by 15% and increasing team efficiency.
- Diagnosed and resolved medium-level software issues, ensuring reliable performance across key applications and minimising disruptions.
- Managed daily technical operations for medium-sized clients, maintaining smooth business operations and consistently meeting client expectations.
- Delegated tasks to new team members while providing coaching and mentorship, fostering skill development and enhancing team productivity.

### **Software Developer**

**Singular Systems: April 2021 - October 2021, Cape Town**

**Development Tech Used:** *HTML, CSS, JavaScript, JQuery, Bootstrap, C#, ASP.NET, VB.NET, SQL, CSS, Azure, Bitbucket, Jenkins, Octo Deploy*

- Demonstrated expertise in designing and working with medium-sized client databases, ensuring effective data management and optimising performance.
- Identified and pursued opportunities for additional client work, expanding project scope and contributing to increased revenue streams.
- Developed complex database queries, including subqueries, to enable advanced data interactions and analyses.
- Created detailed reports and subreports, empowering clients with actionable insights and improving data-driven decision-making processes.
- Independently completed end-to-end development tasks, showcasing strong technical skills, problem-solving ability, and self-sufficiency.
- Regularly provided guidance and support to peers and junior developers, fostering a collaborative and productive team environment.
- Cultivated and maintained strong client relationships, ensuring clear communication and mutually beneficial outcomes.
- Successfully managed personal tasks and priorities, demonstrating effective time management and organisational skills.

### **Junior Software Developer**

**Singular Systems: April 2020 - April 2021, Cape Town**

**Development Tech Used:** *HTML, CSS, JavaScript, JQuery, Bootstrap, C#, ASP.NET, VB.NET, SQL, CSS, Azure, Bitbucket, Jenkins, Octo Deploy*

- Progressed from resolving simple UAT bugs, such as button functionality, to independently developing critical parallel features for key projects, demonstrating rapid growth and technical capability.

- Designed and implemented a feature that enabled users to submit reverse inquiries on a debt funding bidding platform, streamlining workflows and enhancing platform functionality.
- Developed interactive facility usage visualisations using Highcharts, empowering users to monitor available funds and make data-driven decisions more easily.
- Created SQL queries and reports to support daily operations, ensuring efficient data retrieval and reporting for stakeholders.
- Conducted thorough manual testing to validate application functionality and ensure alignment with specifications, improving product quality and reliability.
- Collaborated closely with team members and stakeholders to understand and address client requirements, fostering strong professional relationships and building a foundation for future contributions.

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## EDUCATION

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### Bachelor of Science (Hons) in Information Systems

Rhodes University • Grahamstown • 2019

### Bachelor of Science in Information Systems and Computer Science

Rhodes University • Grahamstown • 2018

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## CERTIFICATIONS

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### Microsoft Certified: Azure Administrator Associate

Microsoft • 2023

- Certification demonstrates proficiency in managing Azure services, making it relevant for professionals seeking expertise in cloud administration using Microsoft Azure.

### CCNA 1 Routing and Switching

CISCO • 2014

- Certification demonstrates proficiency in foundational networking concepts, providing a solid understanding of network fundamentals and protocols.

### Cambridge AS & A Level

Cambridge International Education • 2014

- Signify advanced proficiency in specific subjects(Mathematics, English Language, English Literature and Applied ICT, preparing individuals for higher education or specialised careers with in-depth knowledge and critical thinking skills.

### I.T Essentials

CISCO • 2013

- Certification provides fundamental knowledge and practical skills in computer hardware, software, and networking, essential for entry-level IT roles

### Cambridge IGCSE

Cambridge • 2012

- Certification demonstrates mastery of core subjects at the secondary education level, providing a strong foundation for further academic pursuits or entry into the workforce.

### Web Starter

ICDL • 2011

- The certification equips individuals with foundational skills in web browsing, email usage, and online collaboration, essential for effective digital communication and productivity.

### ICDL

ICDL • 2011

- Certification validates proficiency in essential computer skills, including word processing, spreadsheets, and presentation software, crucial for professional and academic success in the digital age.

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## PRACTICAL EXAMPLES ON GITHUB

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- Copier App with unit tests: <https://github.com/SirMwazv/CopierApp>
- USDT/ZAR Orderbook: <https://github.com/SirMwazv/FiveWestTechAssessment>