Curriculum Vitae

Logan Venter

Senior Software Developer | back-end & API Specialist | C# & .NET Architect

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About Me

Highly analytical Senior Software Developer with over two decades of experience, specializing in C# and robust back-end API development. Possesses a deep passion for continuous learning and intellectual inquiry, notably demonstrated by pioneering an **AI-driven** application for **dynamic prompt generation and execution** on OpenAI's API. This groundbreaking system interpreted JSON definition files to create executable steps, interpret C# code call chains and models, and build custom, reusable prompts from further JSON components. It featured a flexible factory pattern for swapping source components (e.g., C#, plain text, SQL queries), recursive chaining of steps for complex AI queries, and support for diverse data sources (HTTP, disk, memory). This experimental work significantly **advanced automation testing by generating tests** from various data and code contexts, effectively **lifting a substantial burden from Quality Assurance efforts**. Proven track record of delivering scalable, secure, and performant solutions in complex fund management and secure communications environments. Adept at problem-solving and technical leadership, with a focus on driving project success and fostering team growth.

Professional Experience

Senior Software Developer | Derivco | November 2018 – June 2025

- Led the technical development, release, and maintenance of end-to-end software systems, ensuring optimal configuration and commercial benefits.
- Drove continuous integration and continuous delivery pipelines, streamlining deployment workflows and enhancing software release efficiency.
- Defined and drove the technical roadmap for multiple software products, aligning with broader business objectives and architectural imperatives.
- Assessed complexity, scope, risk, and engineering effort for significant software development projects, providing estimates and managing resources effectively.
- Contributed to architecture roadmaps, ensuring adherence to established standards and principles, and actively participating in architectural design discussions.
- Ensured overarching software quality across systems, implementing and enforcing coding standards, conducting rigorous code reviews, and promoting best practices.
- Mentored junior developers, providing guidance and support to enhance their technical skills and contribute to their professional growth.

- Collaborated with cross-functional teams, including product owners, project managers, and QA engineers, to ensure seamless project delivery and alignment with business goals.
- Troubleshot and resolved complex technical issues, providing timely and effective solutions to maintain system stability and performance.
- Stayed abreast of industry trends and emerging technologies, evaluating their potential impact and recommending their adoption to enhance the company's technical capabilities.

- *Reason for severance: Retrenched.*

Senior Software Developer GMIC .Net (Consultant) | Dynamic Visual Technologies (Pty) Ltd | May 2016 – November 2018

- Developed new features and implemented critical bug fixes as per client requirements.
- Handled continuous integration (build) processes on clients' preferred platform.
- Managed branches and releases using Git.
- Orchestrated releases to live when sign-off was achieved from Quality Assurance.
- Collaborated closely with Quality Assurance on quality-related problems and bugs.
- Supplied Quality Assurance with builds and drove regular communication to achieve sign-off and sprint goals.
- Managed sprint goals and workload in coordination with project manager, product owner, and team capacity.
- Provided essential debugging and new feature assistance to team members as needed.
- Executed integrations between various systems at client sites.
- Assisted support when needed to deal with client problems.
- Participated in technical discussions and design sessions relating to product development.

Software Developer/Windows Team Lead | Seecrypt (Pty) Ltd | April 2015 – May 2016

- Developed new features and bug-fixes on the Seecrypt SC3 encrypted communications application on the Windows phone and Windows desktop platform.
- Utilized C#, C++, SQLite-SQLCipher, WPF, Silverlight.
- Handled continuous integration (build) processes utilizing Bamboo build server.
- Managed branches and releases on Stash (Bitbucket) server using Git.
- Released to Windows store when sign-off was achieved from Quality Assurance.
- Worked closely with Quality Assurance on quality-related problems and bugs in the application.
- Supplied Quality Assurance with builds and drove regular "bug-bashes" to achieve sign-off and sprint goals.
- Management of sprint goals and workload in coordination with scrum master, product owner, and team capacity.
- Assisted team members with debugging and new features as and when needed.
- Attended and contributed to meetings and design sessions with other team leaders (iOS, Blackberry, infrastructure, and Android), product owner, and development manager pertaining to new functionality and integration with other systems.

- Assisted support when needed to deal with client problems.

Director | Covariant Consulting (Pty) Ltd | June 2014 – March 2015

- Attended and assisted in design meetings regarding the implementation of the UDCS Windows forms and web-based front-end and back-end system using Agile principles.
- Systems included manufacturing, retail, aftermarket parts and sales, finance and reporting, electronic parts catalogue, helpdesk, and online training management.
- Integrated the UDCS Windows forms and web-based front-ends and back-ends into Syspro for finance, inventory, and reporting purposes.
- Implemented database, data-access, business logic, and rules for UDCS Windows forms and web-based front-end using C#, XML, ASP.NET, SQL, and Javascript.
- Implemented database, data-access, business logic, and rules for UDCS back-end utilized by the UDCS Windows forms and web-based front-end using C#, XML, and SQL.
- Performed testing and verification of all implemented code on a standalone QA system.
- Managed deployment and verification of new functionality and bug fixes after QA sign-off.
- Maintained software and data fixes as needed.
- Provided dealer support.

Software Developer | UD Trucks Southern Africa (Pty) Ltd | March 2012 – May 2014

- Attended and assisted in design meetings regarding the implementation of the UDCS Windows forms and web-based front-end and back-end system using Agile principles.
- Systems included manufacturing, retail, aftermarket parts and sales, finance and reporting, electronic parts catalogue, helpdesk, and online training management.
- Integrated the UDCS Windows forms and web-based front-ends and back-ends into Syspro for finance, inventory, and reporting purposes.
- Implemented database, data-access, business logic, and rules for UDCS Windows forms and web-based front-end using C#, XML, ASP.NET, SQL, and Javascript.
- Implemented database, data-access, business logic, and rules for UDCS back-end utilized by the UDCS Windows forms and web-based front-end using C#, XML, and SQL.
- Performed testing and verification of all implemented code on a standalone QA system.
- Managed deployment and verification of new functionality and bug fixes after QA sign-off.
- Maintained software and data fixes as needed.
- Provided dealer support.

Software Developer | Enermatics (Pty) Ltd | June 2011 – March 2012

- Attended and assisted in design meetings regarding the implementation of the Wattkeeper front-end and back-end system using Agile principles.
- Implemented database, data-access, business logic, and rules for Wattkeeper front-end using C#, XML, ASP.NET, SQL, and Javascript.
- Implemented database, data-access, business logic, and rules for Wattkeeper back-end ensuring devices were kept in sync to policy using C#, XML, and SQL.

- Performed testing and verification of all implemented code on a standalone QA system.
- Adhered to protocol as set out by device engineers when communicating with devices.
- Managed deployment and verification of new functionality and bug fixes after QA sign-off using Hudson build server.
- Assisted with client queries and billing cycles.

Software Developer | Infotech (Pty) Ltd | June 2009 – May 2011

- Attended and assisted in design meetings regarding the implementation of the Wattkeeper front-end and back-end system using Agile principles.
- Implemented database, data-access, business logic, and rules for Wattkeeper front-end using C#, XML, ASP.NET, SQL, and Javascript.
- Implemented database, data-access, business logic, and rules for Wattkeeper back-end ensuring devices were kept in sync to policy using C#, XML, and SQL.
- Performed testing and verification of all implemented code on a standalone QA system.
- Adhered to protocol as set out by device engineers when communicating with devices.
- Managed deployment and verification of new functionality and bug fixes after QA sign-off using Hudson build server.

Programmer | Information Trade World | February 2007 – May 2009

- Managed projects.
- Performed Visual Basic, Delphi, and Website development.
- Designed, developed, implemented, and maintained COBOL Programs as per client requirements.
- Handled client system management, including receiving, scheduling, and planning of client jobs and projects, and writing progress reports.
- Performed general programming functions.

Administrative Officer | City of Tshwane Metropolitan Municipality | March 2004 – February 2007

- Checked and controlled payment vouchers for goods and services, ensuring all legal documents were attached and correct.
- Ensured contracts with retention monies complied with General Conditions of Contract.
- Verified correct foreign exchange covers were obtained.
- Ensured all payments including retention monies were correctly paid in accordance with contract conditions.
- Provided a counter service to internal departments for cheque collection.
- Printed cheques as required.
- Oversaw the overall status of filed documents and managed contents, archiving when necessary.
- Assisted departments with queries regarding payment status.

- Assisted with all IT related problems, sometimes resolving them immediately.
- Performed general administrative services.

Graphic Designer / Sign Writer | Marnet Signs | November 2003 – February 2004

- Created signboards and vehicle signage with graphical processing software.
- Incised vinyl for signs using a graphical plotter.
- Weeded superfluous vinyl from backing sheets.
- Applied vinyl onto various boards and vehicles to create the actual sign.
- Ordered materials required for projects as necessary.
- Obtained materials from various suppliers with personal vehicle.
- Oversaw and helped with the actual erection of signage.

Data Capturing Clerk | Books-u-profit | April 2003 – July 2003

- Performed general administration services (filing, arranging appointments, etc.).
- Captured all invoices, receipts, and financial documents of clients onto a computer, using Pastel 6 accounting software.

Graphic Designer / Sign Writer | Nexor Signs | December 2002 – March 2003

- Created signboards and vehicle signage with graphical processing software.
- Incised vinyl for signs using a graphical plotter.
- Weeded superfluous vinyl from backing sheets.
- Applied vinyl onto various boards and vehicles to create the actual sign.
- Assisted with actual erection of signage.

Education & Qualifications

Diploma in C++ Programming | Intec College

- Maintained an average of 73.1%, the highest score obtained in the history of the institution as of 2006.
- **Subjects:**
    - Introduction to programming
    - Introduction to C++
    - C++ Programming
    - Advanced C++ Programming
    - Systems Analysis & Design
    - Management Information Systems.

Grade 12 (Matric with Merit) | Goudrif High and Elsburg Primary

Subjects:

- Afrikaans : First Language HG - C
- English : Second Language HG - A
- Physical Science - D
- Accounting - C
- Computer Studies - B
- Mathematics - E

- Recipient of the Computer Training Institute floating trophy for the best student in computer studies (2002).
- Completed entire Matric Computer Studies syllabus in Grade 10 and coded first primitive graphics program in the same year.

Technical Skills

- **Languages:** C# , C++ , SQL , XML , ASP.NET , Javascript , COBOL , Visual Basic , Delphi.
- **Frameworks/Technologies:** .NET , WPF , Silverlight , Git , Agile Principles , Continuous Integration (CI), Continuous Delivery (CD), back-end API Development, Azure deployment, Authentication & security, Database integration, Caching & optimization, Unit testing & quality assurance, Microservices & scalable architectures.
- **Tools:** Visual Studio Code (Preferred IDE), Bamboo build server , Hudson build server , Stash (Bitbucket) , Syspro, Ollama, DeepSeek, OpenAI LLM's, Microsoft Azure (Project management, Repository management, Continuous Integration, Azure Services integration.)

- **Concepts:** Architectural & Technical Design, Software Engineering Practices, Development Processes, Planning & Delivery, Strategic Leadership, Knowledge Sharing, Problem Solving & Decision Making, Teamwork & Collaboration.

Personal Interests & Projects

- **Software Development:** Passionate about programming, finding it exhilarating and rewarding to solve particularly hard problems. Currently developing a C# engine for text-based RPG campaigns (DnD-like mechanics), integrating Ollama and DeepSeek for advanced storytelling, with a campaign editor, and using JSON for data storage.
- **Tech Innovations:** Developed a mobile game for the Windows phone store which received 8000 downloads. Developed another Windows phone app for the Eskom load shedding situation, monitoring grid status and notifying users of changes, which received 1200 downloads in two weeks. Built a backlight for his television which changes color according to the average perceived pixel color, greatly improving the viewing ambience.
- **Music:** Highly interested in music, plays the guitar and sings at home and in public. Has written many of his own songs and performed at various venues after one of his songs was played on Jacaranda, and recorded his own album.

References

- **Derivco:**
    - **Chris Coetzee:** 082 548 8817
    - **Ockert Du Preez:** 072 829 0170
    - **Paul Kotze:** 082 901 7953
    - **Albie van Zyl:** 079 492 5393
    - **Gopi Kistasami:** 083 616 1371
- **Dynamic Visual Technologies:** Khumo Jele: 081 447 9732
- **Seecrypt (Pty) Ltd:** Annalinde Singh: 076 640 4766; Dino Fizzotti: 072 874 9100
- **UD Trucks / Covariant Consulting:** Ronete McKenzie: 061 682 2350
- **Infotech/Enermatics:** Melissa Wittstock: 082 750 0065
- **Information Trade World:** Maria Jacobs: 074 254 6027
- **City of Tshwane Metropolitan Municipality:** Martie J. Matthee: 012 358 8269
- **Marnet Signs:** Martie Roberts or Eddie Bekker: 012 734 4990
- **Books-u-Profit:** Dries Venter: Tel: 012 800 3327, Cell: 083 449 7047
- **Nexor Signs:** Dries du Plessis: 012 333 3384