Conrad van Coller

Software Engineer | Solution Architect
vancollerconrad@gmail.com | linkedin.com/in/conrad-van-coller | EU Resident

A fast-learning, self-motivated problem solver combining technical expertise with strong client-facing skills. Proven ability to lead technical teams, design complex systems, deliver solutions from concept to production while communicating effectively with stakeholders on all levels. Actively building AI-integrated systems, with hands-on experience in RAG architecture and agentic development workflows.

Professional Experience

Kaha Management — Jan 2021 - Present

Solution Architect — Dec 2023 - Present

Lead solution architecture and technical design for enterprise CLM/AML platform integrations at major financial institutions. Design complex integrations, deliver presentations, and manage large-scale data migrations.

- Deliver technical presentations, demos and POCs to project stakeholders and engineering teams, translating requirements into clear architectural solutions.
- Architect enterprise integrations for major banks, trading firms (BBVA, DRW) between Fen-X platform and client systems; covering APIs, event-driven messaging, compliance workflows.
- Create technical deliverables including solution design documents, sequence diagrams, and requirements specifications. Serve as client Fen-X platform technical subject matter expert.
- Lead data migration strategies involving 60K+ legal entities with complex AML datasets.
- Build internal AI tooling across the engineering and consulting workflow; most notably KahaPilot, a production MCP server and RAG pipeline grounding Claude Code and Claude Desktop in a private knowledge corpus of 8,000+ indexed documents.

Technical Lead & Co-founder – Kaha Reporting Accelerator — Nov 2024 – Present

Co-founded and architected an enterprise real-time data synchronisation and reporting platform from concept to multi-client production deployment. Led technical strategy and managed development team in parallel with Solution Architect responsibilities.

- Architected distributed system with 6+ microservices using .NET 8, Aspire, PostgreSQL, RabbitMQ event-driven architecture.
- Led a team of 4 developers while actively contributing core platform code
- Established CI/CD pipelines with GitHub Actions and deployed to Azure and on-premises environments for multiple enterprise clients.

Software Engineer – R&D — Jan 2021 – Nov 2023

Responsible for developing new features for a financial client lifecycle management and anti-money laundering system in a Fenergo core CIB team. Transitioned to a Professional Services developer role post-platform maturity, engaging clients directly for system extension and customization.

- Built core modules including AML workflow data ingestion, Business Rules Engine components, and Risk Assessment features
- Implemented aspect-oriented architecture patterns for highly flexible, modular code.
- Technologies: C#, .NET, SQL, Oracle, React, Azure Pipelines, Git

Kerridge Commercial Systems — Oct 2020 – Jan 2021

Software Engineer

Fulfilled a full-stack R&D role in an Agile team, responsible for developing features for a cloud-based ERP/POS system.

- Implemented microservice solutions with testable, maintainable, best-practice code.
- Technologies: C#, .NET, AngularJS, Azure DevOps, Git

Independent Contractor — Nov 2019 – Aug 2020

Software Project Engineer

Independently designed and developed a control system and UI program used to operate and control multiple automated bomb calorimeters, managing full project lifecycle.

- Responsible for the entire project, from establishing client requirements, through system architecture and full stack development, to acceptance testing, deployment and support.
- Technologies: C# .NET Framework, SQL, Dapper, Advantech DAQ modules.

Paramount Aerospace Systems — Jan 2019 – Oct 2019

Flight Simulator Project Engineer

Worked in a two-man team responsible for the design, development, manufacturing, commissioning and support of a military Mirage F1 fixed base full flight simulator.

- Creating an accurate flight- and engine model and validating it against real flight data.
- Designing and implementing failure modes of complex flight systems and simulating their influence on the pilot and the aircraft.
- Assuring project deliverables throughout the project, from technical design to monitoring and controlling cost and time.
- Integrating principles and technologies from various fields to create a complex product: including electronics (Arduino and custom PCBs), software development and functional programming, flight mechanics and simulation, and mechanical design.

Education

Cranfield University & **University of Pretoria** — 2019

Postgraduate Flight Mechanics Course. Focused on flight dynamic principles, aeroderivative estimation, aircraft dynamic modes and control response.

Stellenbosch University — 2018

Bachelor of Mechanical Engineering (B.Eng.).
Thesis (*Skripsie*): Designed, manufactured and tested an active mechanism which successfully mitigates the negative effects of wind on large air-cooled steam condenser systems.

Secondary Education: **Paul Roos Gymnasium**, **British School of Paris** — 2013, 2011

Key Skills

- Strong analytical thinking and problem-solving abilities; excellent communication
- Effective under pressure; high emotional intelligence; proactive, adaptable.
- Languages & Frameworks: C#, .NET, SQL, Python, TypeScript (learning), Lua, Matlab/Simulink
- Cloud & Infrastructure: Azure, AWS, Docker
- Databases: SQL Server, PostgreSQL, Oracle
- Architecture: Microservices, Event-Driven, APIs, CI/CD (GitHub Actions, Azure Pipelines)
- AI Tools: Claude Code, AI-assisted development workflows, agents, MCP

References available upon request