



Elio Bonazzi

Technical Team Leader ♦ Data Architect ♦ Data Integrator

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Skills

- Data Architecture
- Gen AI code assistance for accelerated development cycles (Vibe Coding)
- Automated ETL pipelines using Gen AI tools to transcribe and summarize MP3 audio files
- Big Data
- ETL/Data Integration
- Cloud Computing
- Development
- AI-assisted development workflow
- CI/CD Pipelines
- Infrastructure-as-a-Service
- Data Streaming (Kafka)
- Troubleshooting
- Performance Tuning

Education

Master in Business Administration (Turin, Italy, 1988)

Master of Applied Science in Information Technology (Melbourne, Australia, 1998)

Career Highlights

From 2006 to 2011 Chief Technical Officer for Enterprise Engineering Inc. (joinee.com) a leading Wall Street technology firm specialized in Open Banking and Financial Digital Transformations.

Elio Bonazzi is an internationally recognized, senior IT professional with extensive hands-on experience as a manager and consultant in data integration and migration, database architecture and business intelligence. Elio is a published author of technical books on database technologies. A former CTO for a leading Wall Street IT firm, he has extensive experience coordinating and integrating multiple teams of technical professionals in developing large, mission-critical applications in a variety of industries, including the banking and utilities sectors and government.

In more recent assignments, Elio embraced AI technologies developing scalable ETL pipelines using GenAI models such as Claude Code to generate boilerplate code and implement complex data transformation logic and accelerated development cycles through intelligent code assistance. Elio also developed ETL pipelines leveraging OpenAI Whisper for MP3 transcription and ChatGPT for automated content summarization, streamlining audio-to-insights workflows at scale.

Work History

Data Migration and Transformation Lead

2023-2025 Maurice Blackburn Lawyers - Australian Law Firm.

Performance Stress Testing Lead

2024-2025 Jemena, Australian company that owns, manages and operates energy infrastructure assets in the eastern states of Australia.

Database Lead Architect

2020-2023 Services Australia - Australian Federal Government Agency.

Data Integration Lead

2018-2020 TabCorp Gaming Solutions, Australia's largest multi-channel betting and entertainment company.

Digital Transformation Architect

2017-2018 Fairfax Media, Australia and New Zealand company, with investments in newspaper, magazines, radio and digital properties.

Database Solution Performance Architect

2013-2017 Jemena, Australian company that owns, manages and operates energy infrastructure assets in the eastern states of Australia.

Data Warehouse Architect

2011-2012 Sensis, Australia's largest print directory publisher (Yellow Pages and White Pages) and a provider of marketing services centred on its directory core business.

Chief Technology Officer

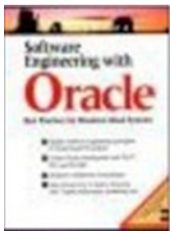
2003-2011 Enterprise Engineering Inc. (EEI) New York, USA.

Elio Bonazzi - Curriculum Vitae

Certifications

2025 - Databricks Data Engineer Associate (in progress.)
2024 - Snowflake SnowPro Core Certification
2017 - M101J MongoDB for Java Developers.
2017 - M201 MongoDB Performance.
2017 - M310 MongoDB Security
2017 - M102 MongoDB for DBAs.
2006 - Siteminder, Zero+ SpA., Milan, Italy.

Publications



Software Engineering with Oracle – Best Practices for Mission-Critical Systems.
Prentice Hall, 1999.

The book applies software engineering principles to Oracle-based IT projects. It links Oracle's own architectural components with crucial externals such as compilers, Version Control Systems, Bug Track systems, and management tools, explaining how to integrate all these technologies to ensure the success of a project.



Oracle 8i and Java – From Client/Server to E-Commerce.
Prentice Hall, 2001.

The book shows how to use programming tools to bring databases to the Internet using the new integration between Java and Oracle. Its coverage includes Oracle object-relational databases and the SQL language, Oracle PL/SQL and Java stored procedures, middleware, and Java components in the database. It also introduces and explains in details Java technologies commonly used in conjunction with Oracle, like JDBC, Java Server Pages and Servlets.

Languages

English: Native/bilingual.
Italian: Native/bilingual.
French: Professional working proficiency.
Portuguese: Basic/conversational.

Hobbies

Playing my guitars and singing amateur Opera.
Traveling and learning about new cultures.
Scuba diving and skiing.
Exploring new IT technologies, such as Generative AI.

Soft Skills

Ability to think outside the box to come up with creative solutions.
Skilled at bridging the gap between technical and business teams and requirements.
Strong mentoring drive, ability to lead by example to rapidly bring junior team members up to speed and increase team productivity.
Natural tendency to accept and embrace new technologies, methods and ways which defy inertia, status quo and entrenched old habits.

Global Awareness

Elio has lived and worked in Italy, France, the UK, Australia and the US and holds the Italian, Australian and US citizenships.

Annex 1 - Detailed Work Experience

Data Migration and Transformation Lead

2023-2025 Maurice Blackburn Lawyers - Australian Law Firm

Maurice Blackburn Pty Ltd is a large law firm employing more than 1,000 staff across several offices throughout Australia. They decided to decommission their legacy legal case management application and to adopt a leading-edge, legal case and matter management system developed by a UK software firm, ShareDo, recently acquired by Clio. The ShareDo software is a state of the art case management system which Maurice Blackburn selected as a component of a broader transformation project. All legal records, customer and third party data had to be preserved and made accessible to ShareDo.

- Led the data migration initiative for the transition from the old case management system to the new one, ensuring the seamless transfer and preservation of all legal records.
- Conducted a comprehensive gap analysis to identify and address incompatibilities between the legacy and new systems.
- Designed and implemented data transformation processes to standardize formats (e.g., date, currency) and resolve discrepancies.
- Developed and executed bespoke ETL pipelines in Java to facilitate the extraction, transformation, and loading of data.
- Managed end-to-end migration tasks, ensuring data integrity, accuracy, and compliance with legal requirements.
- AI-Enhanced ETL Development: Leveraged Claude Code to accelerate Java-based ETL pipeline development, reducing development time by 60% while maintaining code quality standards.
- Applied Claude Code for refactoring legacy Java ETL processes, improving performance and maintainability of data transformation workflows

Performance Stress Testing Lead

2024-2025 Jemena, Australian company that owns, manages and operates energy infrastructure assets in the eastern states of Australia.

Jemena routinely upgrade their systems centred around the webMethods SOA software. Each major upgrade must be thoroughly tested from a performance standpoint to avoid incurring heavy fines by the market regulator (AEMO) in case the newly deployed systems fail to deliver the expected SLAs.

- Led the design, coding and deployment of bespoke test harness software to simulate thousands of transactions aimed at determining the breaking point of the newly deployed Jemena systems after the upgrade.
- Unlike similar past upgrades, the 2024 electricity upgrade and the 2025 gas upgrade involved architectural changes in the hybrid cloud/on-premise mix, which meant performance stress testing of more cloud-based components, and the creation of more bespoke test harnesses.
- Designed and implemented Java JVM performance monitoring tools based on the JMX standard to track performance issues occurring in the webMethods JVM layer.
- Generated the final report for senior management detailing findings and recommendations.

Database Lead Architect

2020-2023 Services Australia - Australian Federal Government Agency

Ported the Aged-Care entitlement contributions calculation engine from a thirty-year old application running on an IBM mainframe to a private cloud solution. The mainframe was decommissioned, and our project enabled the Agency to achieve significant cost savings.

- Installed, deployed, and managed PostgreSQL instances and clusters across the entire organization using RedHat OpenStack/OpenShift private cloud infrastructure.
- Assisted and directed the development teams in the area of ETL, to provide Analytics and business reporting for senior management.
- Devised and implemented performance monitoring solutions to proactively handle performance issues with minimal disruption to PostgreSQL applications.
- Implemented fault tolerance and complete redundancy of PostgreSQL production instances (4-node clusters) to prevent downtime for Agency employees.
- Utilized Ansible in all environments to automate the deployment of fault-tolerant PostgreSQL clusters supporting a multiple environment development model.

Data Integration Lead

2018-2020 TabCorp Gaming Solutions, Australia's largest multi-channel betting and entertainment company - *Project Marty*

- Specialized implementation of AWS tools and environments in the data/data warehousing space:
 - AWS RDS to store consolidated data obtained from disparate sources

- AWS RedShift as the Data Warehousing platform of choice for analysis and reporting
- AWS Glue to integrate Parquet data into RedShift Talend Open Studio for data integration
- Adobe Campaign Manager for ad-hoc, personalized marketing campaigns
- AWS Lambda functions to coordinate and orchestrate Talend data extraction and consolidation jobs
- AWS CDK (Java bindings) to automate deployments and drive AWS Cloud Formation scripts
- Extensive use of Kafka for data streaming.

Project Marty was completed on time and within budget in June 2021. The project generated over \$12m in monthly incremental revenue, a direct result of the more personalized marketing offers and experiences that Tabcorp can now provide to their customers.

Digital Transformation Architect

2017-2018 Fairfax Media, Australia and New Zealand company, with investments in newspaper, magazines, radio and digital properties.

- Elaborated an IT strategy for the migration of on-premise Identity Administration Systems to the cloud (authentication service provided by Gigya, now a SAP company.)
- Established best practices for the selection of the cloud provider and laid the foundation of a clearly detailed plan to identify the steps required by IT organizations to migrate applications to the cloud while minimizing downtime and disruption to the users of applications being ported to the cloud including:
 - ♦ Determining Business Data Requirements
 - ♦ Existing internal relational data mapping to suit cloud vendor NoSQL requirements
 - ♦ Data layer solution architecture
 - ♦ Design and deployment of bespoke data conversion engine written in Java
 - ♦ Live data migration and data reconciliation
 - ♦ Vendor collaboration and management
 - ♦ Legacy system decommissioning
 - ♦ Orphan data management

Database Solution Performance Architect

2013-2017 Jemena, Australian company that owns, manages and operates energy infrastructure assets in the eastern states of Australia.

- Managed the design and implementation of five data migration projects (from the Oracle RDBMS to Microsoft SQL Server) aimed at consolidating disparate internal systems into the OneSAP Jemena solution, accessible to employees via the SAP GUI, and to Jemena customers through the Jemena Web portal, porting several Oracle databases to SQL Server as the SAP back-end database. The effort reduced licensing cost by 30% over 2 years.
- Re-hosted and re-implemented the SoftwareAG webMethods component of the OneSAP solution using MSSQL Server instead of Oracle, saving approximately 20% in licensing cost.
- Guided the design and implementation of integration projects aimed at streamlining information flow across various technologies and products such as SAP, webMethods, e-mail, ftp, Oracle and SQL Server databases and document management systems.
- Created bespoke performance test harnesses to exercise webMethods. The goal was to submit all message types for the ebXML/aseXML industry protocols at four times the expected volumes to verify webMethods' ability to withstand higher-than-normal traffic. All test harnesses exercising webMethods were coded in Java (approximately 150,000 lines of code) and other languages of the JVM ecosystem (Groovy, Kotlin.)
- Created bespoke performance test harnesses to stress test the SAP system. The SAP GUI was driven using COM automation from C# programs, which simulated user interaction with SAP. Created large volumes of IDOC messages to stress test SAP's ability to cope with the traffic generated by external systems.

Integration Specialist

2012-2013 Toll Transitions

Toll is a logistics, shipping, transport and supply chain provider. Toll Transitions is its relocation division.

- Designed and coded a RESTful API library to allow Toll Transitions contractors and sub-contractor to interact with the Toll Transitions Web site, to place and withdraw bids for removal jobs. The API allows the Web front-end to seamlessly integrate with a Toll Transitions legacy application, which serves approximately 30% of the removal business. Approximately 80,000 lines of C# code were produced to implement the RESTful library.
- The technology used to implement the API relied on the Windows Communication Foundation library and C#.

Chief Technology Officer

2003-2011 Enterprise Engineering Inc. (EEI) New York, USA

- As CTO of a boutique IT consulting firm specialized in finance, with a client book of the largest U.S. and international merchant banks, developed software, designed and implemented specific applications, managed teams of consultants and in-house staff and collaborated with H.R. by interviewing, recruiting, hiring and training software design and information systems teams.

EEI Software Division:

- Oversaw creation of documentation used as manuals or guides for internal systems or external products.
- Managed teams of product developers, software designers, testers and consultants to ensure completion of project requirements in a timely manner.
- Managed code review sessions to ensure implementation of best practices and procedures during software modification and optimization phases.
- Identified bottlenecks in development process and implemented advanced remediation processes and tools. Achieved a simplified and faster software development cycle.
- Introduced Agile software development practices, including continuous integration and build, which use a centralized Subversion repository hosted on a Linux environment (previously a Windows based Visual Source Safe environment.)
- Elaborated and expanded document templates, checklists, prospective milestones, project blueprints and diagrams In order to develop a methodology that could be repeatedly and consistently applied to customer engagements in the Oracle/DB2 and J2EE domains, which resulted in shorter discovery phases and better and more accurate overall cost estimates.

EEI Enterprise Services Division

Developed, implemented and managed best practices for the Oracle/DB2 and J2EE streams for EEI consultants.

Merrill Lynch:

- Directly supervised the development and deployment of the Strategic Liquidity Risk Management Data Warehouse, a key project undertaken by Merrill Lynch to prevent further risk exposure following the subprime mortgage crisis.
- Optimized the Oracle database serving a major mission-critical trading application to increase the supported user population and trading volume. This was achieved through changes to the application source code, reformulation of the most expensive SQL queries and a physical restructuring of the database to implement table partitioning and data striping.

UBS:

- Directly supervised the implementation and further development of the ARISK platform, a risk management system strategic to UBS for its return to profitability.