Marcel Asio

IT Specialist

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About me

Versatile software engineer with two decades of experience across diverse domains. My expertise spans from architecting high-performance database environments to full-stack development, DevOps practices, and R&D in industrial automation. This breadth allows me to approach problems comprehensively, considering all aspects of system design and implementation. Throughout my career, I've held roles ranging from principal developer and database architect to CTO, honing my skills in creating reliable, high-performance solutions for critical environments.

My experience includes developing robust systems for the betting and casino industry, designing data warehousing and business intelligence solutions, and most recently, pushing the boundaries of industrial automation through innovative algorithms and software solutions. This diverse background has sharpened my ability to rapidly adapt to new technologies and industries, tackle complex challenges, and deliver high-quality solutions that align with business objectives.

Known for meticulous attention to detail and a proactive approach to problem-solving, I thrive both as a collaborative team member and an independent project lead. My unique blend of technical depth and breadth, coupled with a constant drive to learn and apply cutting-edge methodologies, positions me to make significant contributions across various domains in software engineering.

Education

2006–2007 Master of science — KTH Royal Institute of Technology
Majoring in Computer Networks

2003–2006 Bachelor of science — KTH Royal Institute of Technology
Majoring in Computer Science

Skills

Databases	PostgreSQL, MSSQL, SQLite, MySQL
Programming	Ruby, SQL, Java, C#, Perl, Bash, Javascript, PHP, TypeScript, Erlang
Frontend	HTML, CSS/SASS, jQuery, Angular, KnockoutJS, Boostrap
Frameworks	KnockoutJS, Angular, Rack, Ramaze, sinatra, rails, roda, Spring, Spring boot
OS	macOS, GNU/Linux(debian), OpenBSD, Windows
Networking	VLAN, iptables, Link Aggregation, keepalived, pf, ansible, SmokePing, Nagios, splunk
Virtualization	vmware, docker, xen, lxc
Security	OpenVAS, Metasploit, PCI-DSS
Processes	Agile, Scrum, SAFE, ITIL, PCI-DSS
Other	Git, Subversion, TFS, nginx, munin, postfix, dovecot, Latex, Azure DevOps, AWS, Cucumber, Rspec, maven, borgbackup, grafana, new relic

Communication

Native	Swedish
Fluent	English
Conversational	Aramaic, Arabic

Experience

2013–today Self Employed — Asio Technology AB

2023–idag Utvecklare — Syrianska Föreningen i Örebro
Operation and development of the customer's platform for membership registers, e-commerce and digital archiving of film and video material as well as the web.
Teknologier: Ruby, Bootstrap, HTML, JavaScript, PostgreSQL, Wordpress, MySQL, Linux(Debian), LXC, GIT, SQL, automated testing, borgbackup, grafana

2021–today R&D Engineer — Consulting Assignment: ABB AB
Contribute to research and development of advanced flatness measurement and control systems for the metals industry:

- Design and prototype software solutions for next-generation flatness control systems
- Develop and refine algorithms for flatness measurement accuracy and control precision
- Conduct research to improve system performance in high-speed, low-latency, demanding industrial environments
- Explore and implement new technologies to maintain ABB market leadership in flatness control
- Collaborate with multidisciplinary teams(mechanical and electrical) to integrate software solutions.
- Participate in the entire R&D lifecycle, from concept to prototype to product integration
- Analyze and solve complex technical POC's to push the boundaries of flatness control technology
- Created custom analytics solutions to extract strategic insights from complex customer datasets
- Created AI-based proof-of-concept platforms to optimize cross-team knowledge sharing and competency development

Technologies: Java(v. 6-21), C#, .NET, blazor, powershell, postgresql, python, Azure DevOps, pipelines (CI/CD), debian, HTML, CSS, Javascript, AI, Bamboo, kotlin, git, SQL, automated testing

Experience (cont.)

2021–2021 Technical Project ManagerSenior Developer Consulting Assignment: SRI - Scandinavian Recruitment Intelligence

Enhanced and expanded customer portal for sri.se:

- Optimized portal performance, significantly improving load times and user experience
- Implemented robust security measures to protect sensitive recruitment data
- Developed and integrated new features to enhance portal functionality
- Mentored junior developers, facilitating knowledge transfer and team skill development
- Conducted code reviews and established best practices for sustainable development

Technologies: Java, AWS, Lambda, DynamoDB, S3, HTML, CSS, Javascript, REST, Angular, git, automated testing

2020–2021 Database Administrator Consulting Assignment: Ambea AB

Building and maintaining data warehouse

Technologies: MSSQL, SQL Server Analysis Services (SSAS), SQL Server Integration Services (SSIS), SQL

2019–2021 Change and Incident Manager Consulting Assignment: Ellevio AB

Initially engaged to do a security review of customer portal, role evolved to oversee improvements and future development:

- Conducted comprehensive code review of customer portal, identifying performance bottlenecks and security vulnerabilities
- Provided detailed recommendations for performance optimization and security enhancements
- Transitioned to Change and Incident Manager role to ensure proper implementation of identified improvements
- Coordinated with outsourced development team to resolve issues and implement best practices
- Managed incident response process, ensuring timely resolution of customer portal issues
- Led planning efforts for future features and enhancements to the customer portal
- Acted as liaison between business stakeholders and technical teams to align portal development with business objectives

Technologies: SOAP, C#, .NET, Java, ITIL, Service-Now, REST, git, SQL

2019–2019 Performance Engineer Consulting Assignment: Merresor (Transdev)

Optimized database schema, queries, and API for travel route search system:

- Analyzed and restructured database schema to improve query efficiency
- Implemented schema changes to better support complex search operations
- Optimized existing database queries and indexes for faster data retrieval
- Refactored API endpoints to align with new schema and improve response times
- Introduced caching mechanisms to minimize redundant database calls
- Conducted comprehensive load testing to ensure stability during peak usage
- Achieved significant reduction in average search response time, enhancing user experience

Technologies: C#, .NET, Postgresql, git, SQL

2019–2021 Integration Consultant Integrationsbolaget Sverige AB

Technologies: Java, Azure, AWS, C#, MSSQL, Postgresql, HTML, CSS, Javascript, React, REST, git, SQL, automated testing

Experience (cont.)

2017–2019 Java Developer — Consulting Assignment: Swedish Board of Agriculture (Jordbruksverket)

Developed and maintained the case management system for processing agricultural grants (SAM application):

- Implemented complex workflows for case managers to process various types of agricultural grant applications
- Developed automated validation and calculation tools to streamline application processing
- Integrated the system with government databases and payment systems for comprehensive case handling
- Ensured system compliance with EU regulations and national agricultural policies
- Collaborated with domain experts to translate intricate grant requirements into functional software features

Technologies: Java, Postgresql, maven, angular, docker, CQRS, WCAG, jBPM, SAFE, REST, Linux/debian, git, SQL, automated testing

2015–2019 Database Architect & BI Specialist — Consulting Assignment: Samhall

Designed and implemented a high-performance data warehouse and custom BI solution:

- Developed a robust database solution to overcome limitations of existing BI tools
- Created a flexible system allowing users to adjust calculations with database feedback loop
- Implemented pre-calculation features, significantly improving report generation speed
- Enabled BI developers to focus on data presentation rather than complex calculations
- Streamlined reporting processes, enhancing decision-making capabilities across the organization

Technologies: MSSQL, AgentWay, BizView, git, SQL, automatiserad testing

2016–2016 Technical Project ManagerSenior Developer — Consulting Assignment: Borås Elnät

Developed a comprehensive employee lunch ordering system:

- Streamlined lunch ordering process for employees and their guests
- Implemented automatic labeling feature for restaurant efficiency
- Created monthly reporting module for finance department, ensuring accurate cost attribution
- Improved company-wide productivity by simplifying daily administrative tasks

Technologies: Ruby, Postgresql, HTML, CSS, Javascript, bootstrap, git, SQL, automated testing

2015–2019 Project Manager & Senior Developer — Västgöta-Data AB

Senior database expert with deep technical responsibilities tangled with project management and customer relations.

Technologies: Windows, MSSQL, Ruby, C#, Java, Deplhi, Bootstrap, HTML, CSS, Javascript, wordpress, React, Spring boot, Linux/debian, git, SQL, automated testing

Experience (cont.)

2011–2012 CTO — Nordic Leisure AB (prev. Redbet Holding AB)

Led technology strategy and operations, advancing to CTO role:

- Responsible for ensuring technical compliance with regulatory requirements from national gaming authorities across all IT systems
- Managed distributed development teams across multiple geographic locations
- Developed and executed technology roadmap aligned with business objectives
- Presented regular technology updates and strategic plans to management and board
- Oversaw critical technology decisions and vendor relationships
- Drove innovation initiatives, improving product offerings and operational efficiency

2008–2012 DevOps Engineer & Security Compliance Lead — Redbet Holding AB

Expanded role to IT Operations and Security Compliance following platform rewrite:

- Led PCI-DSS 2.0 compliance initiatives:
  - Authored company-wide security policies, standards, and processes
  - Implemented compliance requirements in software and operational procedures
  - Conducted regular audits and risk assessments
- Designed and implemented network infrastructure across multiple locations (Malta, Stockholm, London)
- Configured and managed switches, routers, application servers, database server and load balancers
- Ensured compliance with PCI requirements for network and application policies
- Setting up monitoring tools and alert system
- Conducted extensive performance testing and benchmarking to ensure optimized operation in production environments
- Designed and implemented high availability solutions with redundant systems and failover mechanisms
- Established and maintained monitoring and alert systems for critical infrastructure
- Provided technical support for production environment, third-party vendors, and internal teams
- Build reports for financial department

Technologies: Perl, c++, postgresql, debian, nginx, apache, nessus, metasploit, html, javascript, knockoutjs, bootstrap, css/sass, jquery, ruby, ramaze, sinatra, rails, openbsd, vlan, iptables, link aggregation, keepalived, pf, git, munin, smokeping, nagios, splunk, postfix, openvas, SEO, redmine, REST, Cucumber, git, SQL, automated testing

2008–2010 Technical Project ManagerDeveloper — Redbet Holding AB

Worked on existing online gambling platform:

- Front-end and backend development on game system and website
- Development of backoffice platform
- Java-based backoffice solutions
- Collab-ted on platform improvements and new features

Technologies: Perl, HTML, CSS, Javascript, c++, postgresql, java, liferay, debian, nginx, apache, subversion, Spring, REST, Cucumber, git, SQL, automated testing

2007–2007 Thesis — Redbet Holding AB

Worked on master thesis:

- Researched mobile gambling solutions and industry standards
- Developed mobile betting client using J2ME
- Developed new API to be used by mobile client as well as partners

Technologies: J2ME, perl, java, postgresql, apache, debian, latex, REST, SQL