ERNESTO SCOGNAMIGLIO

SOFTWARE ENGINEER

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PROFILE

Highly productive Software Engineer with a strong foundation in technical problem-solving and a systems-thinking approach derived from years of diverse experience. Proficient in designing and optimizing enterprise IT solutions, integrating cloud-based systems, and enhancing application reliability. Skilled in Python, C#, SQL and Azure, with proven experience in delivering high-quality outcomes that bridge business needs with IT capabilities. Passionate about leveraging modern technologies to drive operational efficiency.

EXPERIENCE

Application Engineer | Sept 2024 - Present
Terberg Benschop | Utrecht, Netherlands

- Applied AI Implementation: Took initiative to train and validate Microsoft's Custom Translator AI to production, improving the quality of technical translations. Set up and experimented with local Large Language Models (LLMs) to prototype generative AI use cases for the business.
- Design, develop, manage, and support diverse applications and systems to optimize daily operations, bridging the gap between operational business needs, project managers, and the central IT department.
- IT Solution Development: Translate business requirements into effective IT solutions using Python, C#, .NET, SQL, and Cloud computing (Azure). Conduct technical research and gap analyses to propose and implement appropriate solutions.
- Application Management: Maintain, support, and enhance a varied application landscape, including SaaS, on-premise solutions, web applications, and local applications.
- Software Development: Develop custom software solutions adhering to established development standards and processes.
- Collaboration & Coordination: Collaborate with cross-functional teams and stakeholders for seamless IT solution integration. Coordinate actions involving specialist support and external resources.
- System Optimization: Perform data corrections, develop interfaces (API, XML, JSON), and ensure system functionality and efficiency.
- Tool Proficiency: Utilize Confluence, Jira, Git, and DevOps tools for software development and project management. Managed the upgrade and deployment of the SVN repository system across multiple VMs, ensuring seamless integration and improved version control. Ensured compatibility of the new SVN system with tools like CODESYS and Fisheye Crucible.

Software Engineer | May 2023 - Aug 2024
ITrajectum | Utrecht, Netherlands

- Specialized in IPAAS solutions; developed, maintained, and supported enterprise integration solutions using ESBs (Microsoft BizTalk, proprietary ESB Nexus).
- Performed end-to-end development, designing, and implementing integration flows using C# within the .NET Framework, Python, HTML, CSS, JavaScript, and PowerShell.
- Worked extensively within Microsoft Azure and the company's virtual environment to ensure seamless operation and integration.
- Monitored and maintained Azure and internal virtual environments for optimal performance and reliability.
- Participated in DevOps processes, contributing to CI/CD pipelines to enhance the development lifecycle.
- Developed applications and IT solutions tailored to client needs using XML and JSON.
- Occasionally utilized assembly language for low-level integrations.
- Managed and optimized SQL and MySQL databases for data integrity and efficient access.
- Provided IT support, troubleshooting, and issue resolution to maintain stable and functional integration solutions.

EDUCATION

Advanced Querying Data with Microsoft Transact-SQL (M-DP080) | 2025
Microsoft Certified

Bachelor of Commerce (Bcom) Business, Finance and Accounting | 2021
University of Pretoria

IEB National Senior Certificate | 2015
St Benedict's College

Technical Skills

- **AI & Machine Learning:** Microsoft Azure (including Azure AI Services), LLM/Generative AI (Prototyping) Model Integration, NLP concepts
- **Programming Languages**: Python (Proficient), C# (Proficient), SQL (Intermediate), Javascript (Intermediate), PowerShell (Intermediate), HTML (Proficient), CSS (Proficient), VBA(Beginner), C++ (Beginner)
- **Data Orchestration & ETL/ELT**: ESB (BizTalk, Nexus), Experience with principles of data pipeline automation and orchestration transferable to tools like Dagster and dbt.
- **Cloud Computing**: Microsoft Azure (Hands-on experience with services for compute, storage, and data processing analogous to AWS S3, Lambda, ECS; understanding of cloud data infrastructure)
- **Databases & Warehousing**: SQL, Microsoft SQL Server (SSMS), MySQL, LiteDB, Strong understanding of relational databases and data modeling for analytics; familiarity with data warehousing concepts relevant to platforms like Snowflake.
- **Version Control**: Git, SVN (Subversion), TortoiseSVN, FishEye Crucible
- **Tools & Technologies**: CI/CD, DevOps, API Development (REST, XML, JSON), Nexus Repository, Node.js, Visual Studio Code/Community, JIRA, Confluence, Atlassian Suite, Data Modeling for Analytics, Foundational understanding of ML lifecycles and considerations for deploying models into production.
- **Methodologies**: Agile and Scrum

KEY COMPETENCIES

Strategic Thinking: Proven ability to connect business requirements with robust and scalable data solutions.

Initiative & Ownership: A self-starter who takes responsibility for projects from conception through to implementation and support.

Adaptability & Continuous Learning: Open to learning new technologies and methodologies, constantly seeking to improve processes and outcomes.

Cross-functional Collaboration: Experienced in working effectively with diverse teams and non-technical stakeholders to achieve common goals.

Team Player: Enjoys collaborative environments and contributing to team success.