

Filip Szalewicz

Lead / Principal Software Engineer | Data Engineering & AI

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Lead/Principal Software Engineer with 20+ years of experience in **data-intensive systems**, specializing in **ETL pipelines, data lakes/warehouses, reporting platforms, and analytics solutions**. Proven record of **hands-on software development** across cloud ecosystems (Azure, AWS, GCP) while leading and mentoring engineering teams. Architected systems that reduced costs by millions, cut reporting cycles from weeks to hours, and operationalized **AI/ML pipelines** at scale. Strong balance of **technical leadership, solution architecture, and hands-on engineering** in regulated industries including healthcare, fintech, and SaaS.

Key Skills & Expertise

- **Data Engineering:** ETL/ELT pipelines, batch & streaming ingestion, Airflow, Spark, Data Fusion, Glue, Hadoop, Hive
- **Data Warehousing & Lakes:** Petabyte-scale data lakes, BigQuery, Redshift, Cosmos DB, SQL Server, PostgreSQL, MongoDB
- **Reporting & Analytics:** Tableau, Looker, Power BI, semantic layer design, KPI dashboards
- **Programming & Frameworks:** Python, SQL, Java, C#, Node.js, JavaScript/TypeScript, .NET Core, REST, Pub/Sub
- **Cloud & DevOps:** Azure (Functions, Cosmos DB, DevOps), AWS (SageMaker, Lambda, Glue, S3), GCP (BigQuery, Vertex AI)
- **Leadership:** Led teams of 5–50 engineers; enforced coding best practices, CI/CD pipelines, architecture reviews
- **Healthcare & Compliance:** HIPAA, EDI 270/271/835/837, medical imaging (DICOM, SVS), healthcare SaaS systems

Professional Experience

Solid Cage Inc. – Macomb, MI

Principal Consultant & SaaS Founder | 2009 – Present

- Founded and scaled consultancy delivering 50+ SaaS and data engineering solutions with 95%+ client retention.
- Architected **PathGnos** for Mayo Clinic — Azure-based digital pathology archive supporting DICOM/SVS formats, Cosmos DB storage, and CI/CD pipelines. Reduced downtime, enabled 24/7 availability.
- Designed and deployed **websites, web applications, data pipelines, data marts, and reporting dashboards** for SMBs and enterprise clients.
- Built and maintained **DataReaktor.ai**, a SaaS platform for AI-driven lead intelligence and outreach, integrating **n8n, Grok, Gpt4o**.
- Mentored teams on cloud adoption, ETL best practices, and secure architectures.

Shoptelligence – Ann Arbor, MI

Vice President of Engineering | 2022 – 2025

- Architected **15+ TB data lake & warehouse**, cutting analytics retrieval from 3+ weeks to 1 day.
- Built **ETL pipelines** (Airflow, Spark, Data Fusion, BigQuery) that boosted integration speeds by 75% and supported \$1M+ ARR growth.
- Established data quality frameworks and CI/CD standards (GitLab), reducing support tickets by 500%.

- Expanded omni-channel SaaS with recommender systems for personalized retail campaigns.
- Mentored engineers, implemented EOS framework, and drove adoption of modern **data-driven architecture**.

West Monroe Partners – Chicago, IL

Senior Architect | 2021 – 2022

- Delivered **data strategy and warehouse designs** for private equity clients.
- Trained consultants in **SQL, Python, and data architecture best practices**.

Rocket Mortgage (Quicken Loans) – Detroit, MI

Principal Engineer / Team Lead, Data Science | 2017 – 2021

- Architected **petabyte-scale data lake & ELT pipelines** (AWS Glue, Spark, Cloudera), reducing annual costs by \$1M+.
- Led enterprise-wide **data fabric & MDM integrations**, improving compliance and boosting loan volume by 10%+.
- Operationalized ML platforms on AWS (SageMaker, Lambda, Athena) for fraud detection and risk modeling.
- Mentored 50+ engineers on **ETL, Spark, AWS, and CI/CD practices**; recognized with “Automate All the Things” award (2020).

360ofme Inc – Royal Oak, MI

CTO / Principal Engineer | 2016 – 2017

- Designed **high-volume SaaS platform** (Node.js, MongoDB, Postgres, RabbitMQ) for secure personal data management.
- Established CI/CD automation and real-time monitoring across AWS and Heroku environments.

Earlier Roles (1993 – 2016)

- **Healthmaster Holdings** – Built SaaS **medical software for K-12 schools** (student health tracking, diagnosis codes) and **EDI medical billing** systems (837/835/997).
- **imX Solutions** – Lead developer for patented **secure digital payments** and authentication platform.
- **LogicaCMG & JDM Systems** – Enterprise Architect delivering large-scale **reporting & integration frameworks** for global clients.
- **New Wave Software** – Built ERP and **plant floor reporting systems** for steel industry.

Education & Certifications

- **Associate’s Degree**, Computer Information Systems – Oakland Community College
- **Bachelor’s (in progress)**, Information Systems Management – University of Phoenix
- **AWS Certified Solutions Architect & Developer**
- **Microsoft Certified Professional**: Requirements & Solution Architecture