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PROFESSIONAL SUMMARY

Chief Technology Officer – Lead Product Stack Architect, Agile Product Owner (also with extensive role experience as an Agile coach, and as a Scrum Master), Lead Software Engineer Full SDLC - Test-driven Agile/Scrum - Full MS/.NET stack knowledge - Project management - CCPM, Complete product engineering to market experience. Test-driven development evangelist (within reason).

Proven track record of creative and relentless problem solving. Versatile communicator and a passionate SME.

RECENT EMPLOYMENT HISTORY

SVP, Chief Technology Officer, Global Shop Solutions - The Woodlands, TX 1998-2021

Global Shop Solutions is a privately-held software company that produces an ERP suite consisting of manufacturing, supply chain management (distribution, warehouse management, vendor integration, 2-way freight quoting/planning/integration), engineering, purchasing, inventory control, quality, accounting, payroll, quoting and order management, CRM, VRM, prospect management, MES, HRM/HCM, and reporting/analytics/data science. The company operates worldwide, through five international offices

- Imagined, developed, brought to market, and serviced a full suite of on-premise and SaaS ERP, WMS, SCM, and APS products
- Converted a 14 million line on-premise system to an SOA-based, multi-tenant SaaS system on AWS. Converted the SOA-based product to microservices using Docker. Subsequently implemented Docker Swarm, and then converted to Kubernetes (EKS)
- Developed a premiere, integrated a global-scale manufacturing scheduling, VRM-feedback, SCM, WMS, and shipping logistics system
- Expanded R&D department from 4 employees to just over 130 developers, with managerial responsibility over 14 Agile teams, and two “undone” work teams
- Converted development methodology from waterfall to Large Scale Scrum (LeSS) Agile
- Coached every role in the Agile implementation, and served as the Product Owner for the ERP suite
- Trained, coached, and implemented Test Driven Development (TDD) in several of the Agile teams
- Implemented full CI/CD workflows with SVN + Jenkins, Github Enterprise + Jenkins, and Azure DevOps
- Designed and implemented an in-process customization layer, with full IDE, that allowed customer modification, but did not expose or change any product source code

- Designed and implemented full white-label BI and analytics (reports, dashboards, web publishing, etc.) within the product suite
- Extensively integrated Tableau and Power BI with the application, while phasing out Business Objects' Crystal Reports
- Changed existing manual data correction processes to generate labeled datasets for machine learning training and validation to drive in-system inferencing
- Removed old, inflexible rules-based processing, and replaced it with AI (OpenCV, OpenML, ML.NET)
- Implemented IRR vs. MARR for product and toolchain-related decisions
- Created custom programming group and the associated revenue stream
- Created SDK (complete with IDE and runtime) for customizing the ERP package
- Regulatory responsibility for compliance with 21 CFR – 11, 21 CFR - 58, 21 CFR – 211, and 21 CFR – 820, ISO 14971:2002, ISO 17799:2000, HIPAA, PCI, FIPS, GDPR, and other localized and international standards and regulations

SKILLS

.NET (C#/VB.NET), Java/J2EE, C/C++, Python, Javascript base, Knockout, jQuery, Bootstrap, AngularJS (1.x-only)

Container frameworks – Docker (plus ECS), Kubernetes (plus EKS)

SQL (MSSQL, MySQL/Amazon RDS, PostgreSQL, Actian Pervasive, DB2, Oracle), NoSQL (Cosmos, Berkeley, Hadoop)

Advanced analytics and data science – Tableau, Power BI, CR, AutoKeras, Jupyter, Snowflake

Advanced production and shipping scheduling methodologies - ToC, DBR, CPM, CCPM, CBS

Software development methodologies/models - waterfall, extreme programming (XP), Kanban, Agile (Scrum) certified as a Product Owner (CSPO) and trained as a Scrum Master (CSM) by Agile42, Large Scale Scrum (LeSS) certified, test driven development certified

Tools – Used many bug/ticketing systems (Jira, for example), several BI and analytics tools, source control (TFS, SVN, CVS, and Git)

Industrial control - PLC-based SCADA, IoT microcontrollers

Artificial intelligence – CV, NLP/NLQ, ML, inference