

# STAS ANTROPOV

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## SUMMARY

- Senior software engineering manager with 20 years of experience in technical and leadership roles
- Experienced in recruiting and managing diverse, geographically distributed cross-functional engineering teams
- Highly technical hands-on software engineer and effective people manager; comfortable at all levels
- Proven ability to drive complex engineering efforts in fast-paced environments
- Expertise with mission-critical, highly-available systems and IT operations on multiple platforms.

## EXPERIENCE

### **Director and Senior Solutions Architect, STA Group, Chicago, IL. Sep 2005 – April 2020**

As a senior technology consultant, worked on a wide array of projects during the 14-year tenure at a consulting firm. Started out as a full-stack dev lead and grew through multiple IC and engineering management roles over the years. Provided technical leadership and managed teams while staying up to date and maintaining hands-on skills throughout.

- Delivered multiple software projects for enterprise customers, both as people manager and IC
- Built, led, and managed several outstanding technical teams; helped people develop and realize their potential
- Handled all aspects of several client engagements, starting from the early sales calls, through C-suite ideation, designing a solution, building a team, managing a project, delivering, and supporting software in production.

### **Integrated SaaS Data Collection, Processing and LIMS Solution for AEC Industry, Apr 2018 – April 2020**

As an engineering manager, led Agile development team through a comprehensive overhaul of integrated SaaS data collection solution for AEC. Played key role in securing the engagement. Tech stack: C#, ASP.NET MVC, EF6, SQL Server.

- Led series of projects converting the system to multi-tenancy, consolidating 80 SQL Server DBs in the process. Closely monitored high-risk data conversions via multiple metrics, ensured minimal customer impact.
- Guided the effort to address severe performance and production issues plaguing the system: set up communication channels and response protocols, supervised infrastructure and application improvements
- Oversaw transition of dev activities, knowledge, and assets from/to offshore teams in Eastern Europe and India
- Initiated culture shift to DevOps, established close collaboration with the client's infrastructure team
- Drove improvements to the dev infrastructure: Git/Bitbucket, TeamCity CI/CD, automated deploys with Octopus, version-controlled DB changes, performance testing with JMeter/BlazeMeter, Sentry error analytics
- Researched and delivered comprehensive architecture upgrade roadmap for scalable solution implementation options in the cloud (both AWS and Azure) to support high growth and building new features and APIs
- Proposed migrating several terabytes of files from local DB to Amazon S3 and supervised the conversion
- Set up instrumentation to address SQL Server, VMware, and storage performance issues, worked with the client team on upgrading the hardware, tuning SQL Server for optimal performance and budgeting the upgrades.

### **Retail Financing Solution for a Large Mutual Insurance Company, Sep 2019 – Dec 2019**

Contributed as a DevOps architect on a greenfield heterogenous microservices-based solution in Microsoft Azure.

- Prototyped optimal Docker image for NodeJS and .NET Core microservices to be run on Kubernetes
- Set up CI/CD pipelines in Azure DevOps to auto-update consolidated Swagger docs site for all microservices.

### **Internal Processing System for Energy Management Services Firm, Mar 2017 – Feb 2019**

Engaged a new client in energy consulting space and built a development team that modernized client's legacy software with ASP.NET MVC, C#, SQL Server, Vue.js and JavaScript. Directly involved in designing and upgrading the solution.

- Worked with the client's executive team to perform initial IT assessment; produced vision document establishing draft solution architecture, recommended infrastructure upgrades and IT strategy over short and long term
- Helped recruit and bring onboard offshore/onshore engineering team. Convinced the client to engage services of partner design agency which resulted in successful redesign of the client's web presence.

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## Laboratory Information Management System (LIMS) for Ameritox, Oct 2006 – Mar 2018

Delivered multiple phases of the complicated, multi-year LIMS project for prescription compliance monitoring for a large toxicology testing provider. The LIMS was at the core of operations of the large multi-site company. It handled orders starting from arrival, through data entry, lab testing, reporting and billing. Hundreds of users in multiple departments used the LIMS every day. Integrated web portal for outside clients had thousands of users.

- Started as a lead, then transitioned to architect role and took over responsibility for the engagement in October of 2009. Fully responsible for the account, working directly with client's CIO and the IT department.
- Recruited, managed and mentored talented, highly capable software development team
- Grew the account from 7 to 20 people, improved and strengthened relationship with the client
- Provided technical leadership and architectural oversight. Wore multiple hats: wrote code, pitched in as business analyst and a project manager, worked on the database administration and production support.
- The LIMS replaced legacy system which could not bear the load. Delivered the new LIMS in stages with intricate bi-directional data exchange processes that integrated two systems.
- Supervised tuning the system and infrastructure for high performance and high availability. Concurrency was high, write to read ratios were extremely high. The data grew in multiple gigabytes per day.
- Designed and implemented multiple parts of the code base: internal calc scripting engine, integration with NuGenesis SDMS, persistence layer, overall framework for DB change control, build/deployment scripts etc
- Led the design of significant part of the DB schema. Personally designed core data structures.
- The system integrated with laboratory equipment and software from several vendors, faxing solution and multiple outside systems, such as billing system and EHR systems.
- Oversaw design and development of iOS iPad client written in Objective-C integrating with the LIMS via ASP.NET RESTful service. Also led the development of WPF client app utilizing the same backend.
- The general tech stack was C#, WCF, ASP.NET, Windows Forms Click Once, BizTalk and SQL Server.

## Tidal Enterprise Scheduler (TES) – Enterprise Workflow Automation Solution, Dec 2017 – Apr 2018

Helped with transition of TES code base to the in-house dev team. Investigated the complex code and DB structure, reworking Oracle persistent caching, and researching modernization of .NET/Windows parts of the solution.

## Client Portal for Real Estate Investment Company, Feb 2007 – April 2020

Inherited client access web portal for RE investment firm. Completely rebuilt it during modernization. Organized a team, set up infrastructure, personally carried out part of the development effort with ASP.NET, C# and SQL Server. Provided maintenance, upgrades, and support. In 2019, migrated to Azure DevOps and switched to latest SQL Server and .NET.

## SaaS Solution Assisting Physicians with Prescription Drug Tapering, Jun 2014 – Sep 2017

Built a dedicated team and delivered TaperRx – complex system helping physicians wean patients off prescription drugs. The team built the system with C#, ASP.NET MVC, JavaScript, AngularJS and Bootstrap and SQL Server backend.

- Worked with the client's CEO and senior product team to solidify the vision and project schedule
- Spearheaded design of the core data structures, overall system architecture and foundational tooling
- Mapped complex hierarchy describing chemical compounds to industry standard Medi-Span ontology.

## Business Modeling and Requirements Management Application, Nov 2005 – May 2007

Took over maintenance of internally developed C# Win Forms and SQL Server app used by a large financial institution. Refactored large parts of the app and significantly improved stability and performance, built new reports.

## Pre-paid Debit Card Processing System Modernization, Sep 2005 – Dec 2005

Consulted on improving large payment processing system built with ASP.NET, SQL Server and MSMQ. Took over stress testing with ANTS Load, helped resolve critical defects. Evaluated 50+ .NET libraries, built custom prototype ORM in C#.

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## Senior Software Developer / DBA, Wonderlic, Libertyville, IL. January 2006 – July 2006

Worked on building ASP.NET C# apps for psych testing. Provided tech leadership, mentored junior devs, introduced CI, unit testing and design patterns. Designed, built, and maintained SQL Server DBs from UML. Wrote C# and T-SQL code.

## Lead DBA / Developer, US Veterans Health Administration, Hines IL. May 2003 – Sep 2005

Participated in a federal project to modernize blood bank software in 176 VA hospitals. VBECs is FDA-regulated Class 2 medical device project executed in accordance with strict software development & organizational standards based on Rational Unified Process (equivalent to CMM Level 4).

- Developed C# code, unit tests and T-SQL stored procedures, carried out many systemwide refactorings, proposed and implemented several code generators saving time and reducing errors
- Advocated for and implemented development practices such as continuous integration (CI), no build warnings, evergreen builds, design by contract and external string resources. Implemented global exception handling.
- Built C# client and server for VistALink – crucial XML messaging connectivity library for interfacing legacy Vista MUMPS applications. Participated in development of HL7-based interfaces.
- Promoted to lead DBA: maintained multiple dev MS SQL Server databases, managed backups, users, handled DB changes. Set up prototype RAID storage array and SQL Server failover cluster. Supervised all DB-related work.
- Acted as a backup Windows server administrator, managed multiple development servers.

## Web Developer, ChromeAndLeatherPlus.com, Wheeling, IL. October 2004 – February 2005

Contributed to development and support of motorcycle online store. Reworked PHP and MySQL code to improve performance, security, and usability. Aided with the web design, designed graphics using Adobe Photoshop.

## Database / Web Developer, VW Credit, Libertyville, IL. December 2002 – February 2003

Helped build and maintain complex multi-tier web application processing auto loans. Boosted performance of critical module by 1000%. Tech stack: VB6, COM+, SOAP, ASP, Oracle, PL/SQL, Sybase, T-SQL, VBScript, and JavaScript.

## Business Systems Developer, Omnipresent, Chicago, IL. June 2000 – September 2004

Full-stack, DB and OLAP developer at a boutique consultancy specializing on complex enterprise reporting and multi-dimensional data warehousing. Built web frontends, backends, reports, DBs, data marts, cubes and ETL for multiple decision support systems. One of the highlights was budgeting web app used by 500+ people division in a large corp. Tech included Hyperion Essbase, Oracle, PL/SQL, SQL Server, T-SQL, Analysis Services, ASP.NET, C# and JavaScript.

## Software Development Lead, e-Test, Buffalo Grove, IL. October 2002 – May 2003

As onshore liaison supervised outsourced software development for several clients. Managed client interactions, requirements, technical design, and project schedules. Ensured quality, fine-tuning and support of the deliverables. Technologies included: DB2, SQL Server, AS400, ASP.NET, VB.NET, Java, Visual C++, and T-SQL.

## .NET Instructor, Advanced Computer Training, Glenview, IL. July 2002 – June 2003

Taught evening .NET intro workshop that covered C#, ASP.NET, Windows Forms, web services and ADO.NET.

## Web / Software Developer, Novosoft Software Company, Novosibirsk, Russia. 1999 – 2000

Developer at an offshore provider, involved in multiple projects. Built web interfaces with PHP, Perl, and MySQL on Linux. Also completed several smaller MS Visual C++ projects: ActiveX modules and Windows MFC GUIs.

## Software Developer, Volna Trade Company, Ridder, Kazakhstan. 1997 – 1998

Implemented prototype DOS-based point of sale system. Developed lightweight DB engine and console UI in C.

## EDUCATION

### Novosibirsk State University, Novosibirsk, Russia. 1997 – 2001

BS, Physics and Computer Science