**VLADIMIR DANISHEVSKY mba**

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**VICE PRESIDENT | SOFTWARE ENGINEERING ◦ APPLICATION DEVELOPMENT ◦ EMERGING TECHNOLOGY**

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| * **Global Technology & Engineering Leadership** | * **IT Systems Engineering | Solutions** | * **Enterprise Application Development** |
| * **Artificial Intelligence (AI) Transformation** | * **Leadership & Team Management | ~40 EE** | * **Innovation & Digital Transformation** |
| * **Enterprise Technology Strategy | Exploitation** | * **Software & Application Architecture** | * **AI Solutions Development** |
| * **Product Development | Launch Strategy** | * **Deployment & Delivery Management** | * **Cloud Technologies (IaaS PaaS SaaS)** |
| * **Vendor Management | Selection | Negotiations** | * **Roadmap Development | Planning** | * **Blended On & Offshore Solutions** |

**PROFESSIONAL EXPERIENCE**

**NUPSYS**

**VP of Engineering | 11/2021-Present**

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| **Key Achievements**  **Spearheaded the adoption of agile methodologies**  **and engineering best practices, resulting**  **in a 22% reduction in development cycles**  **●**  **Collaborated closely with clients to define project requirements and specifications, resulting**  **in a 20% reduction in rework**  **●**  **Rebuilt the data center management and IOT products from POC to production quality and improved performance by factor 10**  **●**  **Closed contracts with major telecom companies, achieving 7-figure sales after product rebuilds**  **●**  **Implemented a project management process**  **using ClickUp and GitLab for code control,**  **ticketing, CI/CD, and the QA process with**  **TestRail for evidence collection** |

* Hired to rebuild two major products, the NuSIM and NuVIZ, for the Digital Twin (NuSIM) and Data Center and Network Management business (NuVIZ), including rebuilding the development team, IT-related activities, CI/CD pipeline, QA team, and setting up the Agile development process.
* Direct the engineering organization and development strategy responsible for the core platform development, software engineering, application support, architecture, development, QA, DevOps, UI, and 3D model design.
* Develop a vision, strategy, and growth plan for the production-level deployment, support, and upgrades of core applications for clients. This includes NuVIZ, a comprehensive package for designing, relocating, constructing, monitoring, and optimizing data centers and networks within those data centers, and nuSIM, which produces 3D Digital Twin products that create digital models, collect data from various sensors, and employ ML models—Convolutional Neural Networks (CNNs) for anomaly detection and Support Vector Machines (SVMs) for predicting equipment maintenance.
* Build and manage a globally distributed team of 18, including Team Leads, Designers, Architects, Systems Engineers, and Analysts in India, Georgia, and Kazakhstan, overseeing all engineering and technology functions and driving strategic decisions for architecture, infrastructure, and technology directions.
* Lead system and engineering architecture planning and reviews, collaborating closely with architects and engineers to enhance system reliability, performance, security, and maintainability.
* Maximize the resiliency and scalability of the platforms by mentoring developers in service-oriented design, overseeing implementation and testing, IT resource allocation, and rollouts for customer-facing applications.
* Manage vendor relationships with third-party service providers, including the Quality Museum vendor QA team, which consists of a Lead and 2 analysts located in Turkey, and the GoBrilliant vendor team, which consists of a Lead and 3 developers located in India, EPAM for the security audit and ABCloudZ for the database migration projects.
* Elevate team productivity by addressing individual concerns, identifying skill gaps, providing necessary assistance, enhancing transparency, and providing one-on-one coaching to drive higher-quality deliverables and accelerate deployments.
* Guide the enhancement of existing applications while migrating new functionality to microservices and modern technologies, building a Web-based version of the software and a cloud-based deployment model (SaaS model).
* Developing an AI data enhancement tool using the RAG model to collect device information from public sources and store device profiles in a database.
* Lead product visualization and markup functionality enhancements, incorporating customer feedback to align solutions with user needs.
* Oversee continuous improvement initiatives focusing on improving quality and productivity through process and tooling enhancements across the engineering organization.

**CITIBANK**

**Consultant | 11/2019-10/2021**

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| **Key Achievements**  **Played a key role in the implementation of the Ultra-Low Latency DMA platform, improving the performance of the new system by 200%+**  **●**  **Built End-to-End order flow monitoring platform, increasing system throughput by 52%** |

* Responsible for the redesign of the Citi Global Connectivity platform, which provides connections to US equity exchanges (NYSE, NASDAQ, CBOE, MEMX, IEXG, LTSE. EPRL) using microservices architecture on Java 8.
* Oversaw the technical architecture, ultra-low latency implementation, strategy, and roadmap for low latency architecture.
* Led the design and implementation of a new ultra-low latency LLDMA platform, increasing the platform's performance through the rearchitecting platform by using Microservice architecture, heap-offloading, and kernel bypass and lowering the latency of critical components from 100 microseconds to < 20 microseconds.
* Improved overall system latency from 600 microseconds to less than 100 microseconds.
* Provided architecture guidance, support and enhancements for new platform integration with various Citi internal and external applications and processes.
* Optimized the connectivity platform by working with Citi Smart order routing, including collaborating with developers on the Development, Architecture, and Design of the application.
* Increased unit test code coverage of the trading system to 48%, ensuring high code quality.
* Designed warm-up methodology for connectivity system that allows for trading and optimizing during the trading day, decreasing latency by more than 10 times for systems with a low flow rate.
* Implemented performance testing lab with exchange simulators and orders generator for connectivity performance optimization, which quickly achieves system optimization goals.
* Applied Corvil technology for end-to-end latency measurement and optimization of the trading components and implemented AppAgent software to provide visibility for internal components' latency.
* Improved latency of critical components from 100 microseconds to 20 microseconds.
* Engineered performance testing lab to further improve the latency of the critical components.
* Environment: Linux, Java, KDB, Solace, Chronicle package for off-heap programming, and Chronicle Fix Engine.

**APOJI**

**CTO / Development Manager | 08/2018-11/2019**

* Co-founded the company and developed a proprietary trading system executing arbitrage algorithms over 20 markers across the globe with low latency proprietary technology to target structural inefficiencies in the fragmented crypto space.
* Developed IT budget and performance objectives and built a team of 5 developers supervising all development activities.

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| **Key Achievement**  **Researched and developed trading algorithms achieving 20%+ profitability for arbitrage strategy** |

* Facilitated the system design, which included connectivity, market data aggregation, SOR, and an algorithmic engine using Microservices architecture, where services are communicated using the ZeroMQ messaging platform.
* Wrote the platform utilizing Java for the connectivity layer and UI and C++ for the trading components.
* Responsible for managing relationships with the investors and presenting strategies and P&L analysis to the investors.
* Built and maintained business relationships with hardware vendors for quick access to new computer equipment.
* Environment: Linux, Postgres, Java and C++, QuickFixJ, Redis.

**CITIBANK**

**Senior Software Development Manager | 12/2015-09/2018**

* Managed software development of Electronic Trading capability for Citi's Credit Cash Products business globally, playing a key role in developing a new trading platform that unified functionality across all trading desks globally.
* Developed a new single Credit Bonds Trading platform to implement changes for regional business on the single platform and enable MIFID II changes across all regions (US, APAC, and CEMEA desks and emerging markets LATAM and APAC desks) and met the deadline for implementation.
* Architected and managed the implementation of the system, including data, application process flow, and design of individual components.

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| **Key Achievements**  **Increased electronic trading volume**  **from 30% to 60% for the US IG Desk**  **●**  **Improved company rating by Financial Times and Thomson Reuters ranking from 8 to 4**  ●  **Grew total trading volume of US trading desks by 15%** |

* Rearchitected the analytics through the use of Kafka, Redis and KDB, significantly decreasing time for bonds analytics calculations.
* Automated the trading workflow, resulting in the development of a new automated trading system that eliminated trading personnel from the retail trading desk and increased revenue by 30% for US desks.
* Collaborated and managed business/client relationships with key trading desk heads (Retail, IG, HY Index, ETF) and with different regions (US, LATAM, EMEA, ASIA and Emerging markets) to create new revenue sources by developing new models, using new trading protocols, optimizing trading functionality, and implementing algorithmic trading for all trading desks.
* Directed offshore & on-site development teams comprised of 40+ leads, developers, and BAs in New York, London, Warsaw, and Shanghai, leading the writing of high-performance, low-latency code in Java and C++ migration from a legacy application to next-generation technology.
* Rebuilt the development team for credit trading from separate regional teams into a cohesive single team that supports geographically distributed e-trading business.
* Responsible for full SDLC, creating and maintaining project plans and milestones, managing issues & risks, resource allocation, and producing executive reports.
* Led outside vendor the Data Migration conversion team, having the ownership of design, development, and testing of all data transformation, extraction and migration activities to move data from the previous platform to the new platform.
* Created and maintained a technology roadmap including infrastructure, architecture, and strategy work; managed the program communication plan; provided status reports; and chaired weekly project review sessions aimed at senior management levels.
* Environment: Linux, Java, and C++ for analytics calculations, Oracle and KDB, Solace and Kafka, eSper for data processing, and UI.

**MARITIME CAPITAL LLC**

**Consultant Quantitative Analyst - Trader | 02/2015-12/2015**

* Algorithmic Trading Strategies - responsible for building high-performance corporate bond trading business for the hedge fund; build strategy implementation software research, test and implement arbitrage trading strategies; achieved Sharpe ratio of 7 for the implemented strategy and profitability of 15% + with no leverage.

**BARCLAYS CAPITAL**

**Software Development Manager – Algorithmic Trading Technology | 04/2011-02/2015**

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| **Key Achievements**  **Designed a system for high-performance**  **analytics calculations and data analysis,**  **reducing calculations of bond analytics from**  **100 milliseconds to ~5 milliseconds**  **●**  **Built a Credit Trading system supporting Credit and CDS trading utilizing an existing Algorithmic trading platform for FX (BATS), thus saving 40% on development and support costs**  **●**  **Automated trading in small sizes on CDS and Round Lot desks, increasing volume by ~20% for CDS desks and ~45% for Round Lot desks** |

* Managed a 12-person development team located in New York, London, and Prague, responsible for the design and implementation of BATS (Barclays Algorithmic Trading System), which covered several asset classes starting FX, Rates, Commodities, and Credit.
* Architected the algorithmic system and maintained the system compatibility across all asset classes.
* Designed big data architecture for high-performance analytics calculations and data analysis with drastically improved analytics calculations performance.
* As a result of system implementation, algorithms were able to handle most small-size trades, allowing traders to focus on large, more profitable deals.
* Ensured strong adherence to IT standards, compliance, and best Software Development practices, effectively improving software quality and reducing defect rates
* Worked with quants and traders, designed and implemented new trading algorithms for Odd Lot trading desk, CDS, and IG trading desks; algorithms were used on NYSE, Knight Bond Point, BondDesk, Bloomberg, Market Axess, CreditEx, TradeWeb, and GFI in EU and US.
* Environment: Linux, Java, and C++ for analytics platform, Oracle and KDB databases, Solace middleware, Java-based UI and proto buffers for message encoding decoding, proprietary FIX engine.

**CREDIT SUISSE**

**Software Development Manager | 03/2010-04/2011**

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| **Key Achievement**  **Developed a global connectivity platform**  **decreasing latency from several hundred microseconds to <30 microseconds** |

* Coached a team of 6 software developers, leading the company-wide connectivity and execution platform's design development and support.
* Developed the platform to provide algorithmic trading, customer access providing ultra-low latency connection to exchanges, delivery of market prices, access to the company's liquidity pools, and DMA access for different markets, including FX and Rates.
* First, ONYX was implemented on Wall Street, the Fixed Income algorithmic trading system for CS customers, using the team's connectivity platform. That provided CS exclusive rights to trade Fixed Income custom strategies on Bloomberg for 6 months.
* Environment: Linux, C++, Oracle, proprietary low latency FIX engine.

**QUANTITATIVE MANAGEMENT AND CAPITAL MARKETS**

**Head of Software Development | 11/2008-03/2010**

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| **Key Achievement**  **Developed a system that continuously traded 2K+ liquid stocks across all equity markets** |

* Developed a low-latency trading system for the proprietary trading desk. The system became fully operational in less than 6 months, trading on major exchanges and ECNs: NYSE, ARCA, NASDAQ, BATS, EDGX, and EDGA.
* System was designed and coded in C++ from scratch without any commercial software; the system consisted of several feed handlers with book building, an execution module, and an analytics engine.
* Environment: Linux, C++ QuickFix Fix engine.

***Previous Experience:*** Bear Stearns | **Software Development Manager – Principal Strategy Team (02/2004-11/2008)** / Citigroup/Salomon Smith Barney | **Technical Lead – Global Derivatives Department (11/2000-02/2004) /** Societe Generale | **Associate / Software Programmer – Derivatives Systems Development Group (01/2000 -11/2000)**

**EDUCATION / CERTIFICATIONS**

**Master of Business Administration in Finance** Rutgers University

**Master of Science in Chemical Engineering** Saint Petersburg State Institute of Technology

**TECHNICAL COMPETENCIES**

**Operational Tools:**Confluence | Jira | Slack | ServiceNow | MS Project | Visio | Excel | PowerPoint | GitLab | ClickUp | Microsoft Teams | WebEx | Skype |ChatGpt Prompt Engineering | Advanced Excel Pivot Tables, VLOOKUP | Zapier

**Programing:** Java | C/ C++ | Jason | XML | JVM optimization | Spring | SQL/No SQL | Memcached | Redis | MongoDb

**Operating Systems:** Red Hat Linux | Ubuntu Linux | Windows

**Messaging**: Solace | TIBCO EMS | Kafka | ActiveMQ | Informatica (29West) | ZeroMQ | Network and Linux system programming | TCP/IP | UDP

**Communications protocols:** FIX 4.2 | 4.3 | 4.4 | 5.0SP2 | Protobuffers | FlatBuffers

**Open-Source Platforms:** TBB | STL | Folly | Boost | OpenOnload | Chronicle.

**Software Develop Methodologies:**Agile | Scrum | Waterfall | OOP | SDLC | SOA | N-tier Architectures | Microservices | Functional Programming

**CI/CD**: Bitbucket | Git | GitLab | Maven | Gradle | make | Jenkins | TeamCity | SonareQube | uDeploy