KRYSPIN (KRYS) ZIEMSKI

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Financial Technologist (Product Management, Systems Architect, and Full Stack Developer)

AREAS OF EXPERTISE

- Financial Protocols/Data (Bloomberg, Reuters, Markit, FIX/FPML, VCON FIX, Riskmetrics, SuperD, ICAP, JPM (DQ)...)
- 3rd Party Systems (Geneva, Calypso, FrontArena, TT, CS(AES), GS/Redi, JPM, BARX, TradeWeb, MarkitSERV, FXAll, Intex ...)
- Infrastructure/Databases (AD, Exchange, CRM, VMware/Citrix, Azure, AWS, GCP, VOIP, SQL, SSAS, SSRS, KDB, VPN, Docker, Hadoop, HDFS, Kubernetes ...)
- Programming/Messaging (.NET/F#/C#, C++, Java, Python, Scala, Matlab, R, Excel, OLAP, CUDA, Mobile, Node, React, Reactive, Serverless, Solidity, Rust...)
- Product Knowledge/Analytics (FX, FI/Credit, OTC, Structured/Derivatives valuation, FinCAD, Numerix, ITO33, CreditAnalytics ...)
- Data Science/Quant/AI/ML/Visualization (Spark, Pandas, Jupyter, D3, Graph, Tensorflow, Keras, CNTK, Caffe, Quantlib, MKL, NLP, NLTK...)

WORK EXPERIENCE (PAST 15 YEARS)

DYNAMO FUND

2020-2023

CTO (Startup Hedge Fund: systematic macro)

New York, NY/Greenwich, CT

- Helped bootstrap fund during covid pandemic heavily utilizing cloud technologies and remote deployment of technologies (AWS Microsoft, Intel NUC, ...)
- Built out trading connectivity via Bloomberg EMSX to over 20 exchanges (Python, Bloomberg EMSX/Desktop API, ngrok, React, AWS, ...)
- Monitor overnight trading and rebalancing for trading strategies (Python, Pandas, EMSX/Desktop API, ...)
- Built/Run reconciliation of trades/cash in multi-currency portfolio (Python, Pandas, ...)
- Built out risk reporting for internal and reporting purposes (Python, Pandas, ...)
- Contributed to the marketing deck (Reveal.JS, React, ...)

QCOMPUTE LLC (Experience Consolidated in Descending Order; lines separate projects)

2017-Present

Tri-State

Owner (Notable Projects consulting for various Fintech/Capital Markets)

- Built Consumer credit monitoring service focus on early detection as a React PWA (AWS React Stripe Node Serverless Python)
- Built Scalable Credit Reporting Data Validation/Enrichment Service (AWS React Stripe Docker Containers Serverless Node Python QuickSight)
- Built POC invoice financing platform for food services/fintech financing startup (AWS React Node Python Rekognition D3 Syncfusion Diagramming LoanPro)
- Evaluated, Architected Solutions for asset securitization of consumer loan portfolios (LoanPro, AWS, WebBank, Cross-River, ABS, SPV Financing)
- Evaluated, Implemented, Deployed Loan Management/Servicing into fintech startup's infrastructure (LoanPro, AWS, Credit Scoring, GBM, Machine Learning)
- Built Consumer Loan Application Web Application for machine learning fintech startup (React, Node, AWS, Serverless, Loan Pro, Plaid, Python, Keras)

CADENCE GROUP

2018-2020

CTO (Seed series startup: retail investor platform for asset securitization of financing/private credit)

New York, NY

- Managed a Growing Technology team from none to engineering pods (JIRA Agile OKR)
- Took over POC and architected/rebuilt as Flagship Product for launch in 6 months (Python Heroku Django postgres React Node AWS Lambda Serverless Plaid Onfido)
- Built Cadence Debt Token (CDGXX): ERC20 Upgradable Contract mirroring compliant reg-D offering (Solidity, Ganache, web3js, ethers, Infura...)
- Contributed to several key business decisions and partnerships (Bloomberg Data, FIGI, Bloomberg Enterprise Solutions App Portal, Smart Contracts Web3)
- Successfully listed CDGXX tokens to the Bloomberg Universe as Prom. Notes M-Mkt key: A Crypto First (Bloomberg Enterprise, SPFS...)
- Built Cadence Private Credit Explorer on Bloomberg App Portal (Bloomberg Data, FIGI, React, AWS GraphQL AppSync)
- Part of Management Committee and contributed to hiring across the company
- Integral to operations and processing of cash and accounting for deals

$\textbf{PARALLEL COMPUTATIONS} \ (\textbf{Experience Consolidated in Descending Order; lines separate gaps)}$

2008-2009, 2011, 2012-2017

Owner (Notable Projects consulting for various Hedge Funds/Prop Desks, Fintech)

Stamford/Greenwich, CT

- Built Data Science environment to generate/analyze learning strategies on Macro-economic data (Pandas, Jupyter, Keras, web scraping, pipelining, workflow...)
- Designed/Prototyped workflow for fintech in securitizing consumer debt (Nortridge, Investran, Bloomberg, C#, xml processing ...)
- Built Portfolio Back-Testing Engine for manager selection/on-boarding (Agent Design, Jupyter, Pandas, HDF5, Concepts from "Portable-Alpha", Risk selection theory...)
- Build-out Infrastructure, Trading Floor, Risk, Accounting for MBS/Credit Hedge Fund (IPC, Avaya, HP, Advent Geneva, Quantifi, VMware...)
- Build-out Risk Monitoring, Trading, and Exchange Connectivity for LatAm Prop Trading Desk (C++, C#, FIX/FAST, WPF, ZeroMQ, ICE, low latency)
- Build-out/Integration for a Macro/MBS fund's Portfolio, Accounting and Risk Reporting systems (SSRS, Geneva, Bloomberg AIM, Imagine IFP, C#...)
- Built Front office visualization tools for quantitative L/S Fund (time series analysis, Numerics, BBG Server API, TreeMap, "Spider" Node Graph, Tufte, "Tagging", C#)
- Rebuilt a systematic trading strategy prototyped in Excel/VBA for a quantitative fund (Deltix, R. ExcelDNA, FIX, XLL, C#, NoSQL, MongoDB)
- Automating news/event-based strategies, real-time mirroring of human based trading with automated hedging (GS/Redi, FIX, .Net, Web scraping, Twitter)
- "On-Boarding Analysis" created tool to analyze incoming PM teams: return/factor analysis, Portfolio/Risk statistics. (C#, ASP.NET)
- Built Risk Analysis/Reporting platform for a Fixed Income Risk group. (Reporting Services, SharePoint, C#, Custom FI Pricing Library)
- Extended risk functionality in SunGard's <u>FrontArena</u> Portfolio Management system. (Python, C++, C#, ADFL, Sonic ESB)
 Created custom trading solution using TT[©] API for Trading Group. (C#)
- Integrated ITG's soft dollar commissions functionality. (C#, MSSQL)
- Worked on several Tactical Projects using Calypso® Portfolio Management System and Paladyne® Security Master. (Java, C#, MSSQL)

BELLPOINT CAPITAL 2011-2012

CTO (\$500m credit fund: corp. bonds, high yield, CDS, futures, ETFs, options, loans)

NY, NY

- Created unified analysis/reporting framework servicing: trading, PM, Risk, and Investor Relations (.Net, MSSQL, SSAS, MDX, OLAP, SSRS)
- Completed integration to Bloomberg OTC FIX connectivity for Fixed Income/VCON trading/operations (.Net, QuickFIX)
- Completed integration with Omnium/Northern Trust Fund Administrator for daily reporting purposes (.Net, MSSQL, SSIS, SSRS)
- Created reporting on High Yield ETF constituent Analysis for the front office. (.Net, BBG, IIS, ASP.NET)
- Created Risk reports for portfolio analysis and Investor reporting (.Net, BBG API, SSRS, SSAS, MDX, Fixed Income Analytics ...)
- Maintained reports for Advent Geneva. Developed WFM workflow for import into warehouse (.Net, RSL, SSIS, WFM ...)
- Managed outsourced IT infrastructure with InfoHedge service provider.

GALLE GLOBAL MACRO PARTNERS

2009-2011

Head of Technology/Developer Lead (\$450m macro fund: futures, options, FX, IRS, swaptions, CDS)

NY, NY

- Instrumental in creation of fund (selection/build-out of office, Fund Admin. evaluation, Equipment leasing, Business Continuity Plan)
- Created ops workflow and technology plan according to "best practices", completed 20+ successful Due diligence meetings
- Built/Maintained complete infrastructure: AD/File/Email/Databases, dual internet, Disaster/Backup, VOIP, VPN, Blackberry
- Built STP integration between Traiana for FX and MarkitSERV for Rates and Credit. (C#, C++, MSSQL, FPML)
- Main Architect and Developer for the Front Office. (Windows/Azure technology stack, Python, BBG Server API, DevExpress...)
 - Extended SunGard's FrontArena® Portfolio Management system. (Python, C++, ADFL)
 - Created a Timeseries Database combining several data sources for rapid analysis in Excel and Matlab. (C#, XLL, MSSQL, OLAP)
 - Wrote proprietary portfolio/risk analysis tools and trade loaders for the Front Office. (QuickFIX, Broker APIs, C#/WPF, Syncfusion)
 - Developed replacements for legacy pricers written in Excel/VBA. (Numerix, CUDA, ISDA CDS, Quantlib, C++, C#, ExcelDNA)

FORTRESS INVESTMENT GROUP, Drawbridge Global Macro

2006-2008 NY, NY

Senior Systems Architect (\$6bil multi-strat global fund: equities, options, futures, FX, corp. bonds, CDS, OTC, exotics)

- Managed order flow and built automated processes for External Portfolio Business. (C#, Broker APIs, MSSQL, ASP.NET)
 - Created a system for generating instructions for monthly/weekly rebalanced portfolios derived from signals by external managers
 - System generated trades to apply both currency and index hedges to maximize alpha.
 - Generated full risk attribution and performance reporting for the portfolio to present to the management committee.
- Responsible for Front Office integration working with incoming PM's to develop replacement technology lost in transition to Fortress.
 - Developed with many technologies. (C#, C++, Java, MSSQL, Broker APIs, FinCAD, Riskmetrics RML, Quantifi, HOLT, Infragistics...)
 - Supported PM's globally including onsite to help launch the Fortress Commodity Fund in London. (BBG, VBA, XLL, Matlab)

LAUREL RIDGE ASSET MANAGEMENT

2002-2005

Vice President, Technology (\$500mil AUM, Relative Value fund: equities, options, futures, conv. bonds, OTC, loans)

NY, NY

- Designed, developed and maintained complete trading/risk infrastructure and in-house applications. (C#, C++, ITO33, PGM, Multicast)
- Directly reported to the Partners of the fund managing architecture and decisions regarding technology.
- Implemented full STP between execution brokers, 2 prime brokers and Fund Administrator. (FIX, REDI, C#)
- Developed Security Master capturing listed and OTC reference data sourced from Bloomberg Data (BBG DAPI, MSSQL)
- Developed in-house Order Management System (BBG Gateway, C#, C1/ Infragistics).
- Built/Maintained full Infrastructure: Directory/Email/File/Database/Blackberry including branch office for backup/disaster recovery.

SOLILOOUY INC

1999-2001

Software Engineer (Founding member of a Silicon Alley.com Startup)

NEW YORK, NY

- Developed web-based automated sales agents utilizing AI/Natural Language Processing for client e-commerce websites
 - "Chat-Bots" could simulate a conversational dialogue with customers about products they wished to purchase.
- Developed Prototype, Developed/Managed redesign to final product. (IIS/ASP, Linux Apache, C++, CORBA, PERL, Smalltalk)

EDUCATION

SUNY, Stony Brook, NY

1997-1999

Applied Mathematics/Computer Science (completed coursework, left for start-up, prior to completing degree)

Stony Brook, NY