**SUMMARY**

* Highly collaborative Senior Engineer with 18 years of hands-on software leadership experience driving, designing and building scalable, globally distributed applications & products for hedge funds and financial trading desks.
* Passionate for first-in-class engineering principles, clean extensible interfaces, code simplicity, system maintainability and testability. Drive for achieving metrics-focused business outcomes with an Agile mindset and a focus-to-finish attitude.
* Well-versed in building consensus, thinking big-picture and handling ambiguity. An intellectually curious, empathetic leader who believes in the immense potential of investing in people and teamwork.

**COMPETENCIES**

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| * Java, Spring, Hibernate, Webservices (REST/SOAP) * Sybase, DB2, MSSQL Server, Oracle, H2, ELK stack * Distributed System Design, APIs/Microservices * Distributed Caching, Messaging/Events Driven Design, Test Driven Development * Angular, C#.Net * Python, NLP, Barcode readers, OCR, Tesseract, OpenCV, Chrome Extension APIs * MS-Azure Cloud, Zookeeper, Treadmill, Tomcat, Jetty * Agile, GIT, Jenkins, JIRA, Cucumber, Artifactory, Devops tooling | * Engineering team setup. * Organization Line & Matrix Management, Staffing, Budgeting * Lateral/Campus Recruitments * Hedge Funds, Portfolio accounting and allocations, trade booking and cash management * AML, Transaction monitoring, Risk calibration and PII/ MNPI data management. * Client Onboarding and Business Workflow modelling * Technology solution vendor interactions * Large scale system design, maintenance and support |

**PROFESSIONAL EXPERIENCE**

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| **Goldman Sachs** | New York | **Nov 2020 - Present | New York** |
| **Vice President**  ***Role:* Senior Engineering Manager, Core Platform Engineering – SecDB Architecture** | Nov 2020 - Present | New York |

*Primary Tech:* Slang, SecDB, C++, Java, BigQuery, IDE builds (Secview, VSCode extension, IntelliJ), Gitlab, CVS, Kanban

*Projects & Engagements:*

* **Oversee, Support and Manage Tech leads** driving initiatives for extending adoption of the Slang programming language and overall securities database ecosystem. Platform underpins the pricing, risk and analytics engines for financial instruments traded by Goldman Sachs. **Responsible** for technology guidance, career management, business stakeholder management, technology roadmaps. **Key goals** a) Foster collaborative and open SDLC b) Globally shared, consistent and extremely performant analytics c) Uplift programming language design and implementation to take advantage current technology trends (cloud native, observability).

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| **Morgan Stanley Inc.** | New York | **Jan 2013 – Nov 2020 | New York** |
| **Executive Director**  ***Role:* Global Chapter Lead for Client Data & Security squads – Fund Services** | Dec 2016 - Nov 2020 | New York |

*Primary Tech:* Core Java, Spring boot, REST/SOAP Webservices/APIs, Hazelcast, Sybase, DB2, H2 in-memory db, Angular, Hibernate, Actimize APIs, JMS IBM-MQ, CPS (Content Pub-sub), Type-7/4 Load balancers, Adobe AEM/Acro forms APIs, open-NLP, OCR & 2D dynamic Barcode Imaging libraries (adobe, aspose, Tesseract, OpenCV, pdfbox), WebSockets, CPSjs,, Junit, Cucumber, BOX APIs, GIT, Jenkins, Agile-Scrumban. Zookeeper, Treadmill, Cucumber, Junit, GIT, Scrum/Kanban.

*Projects & Engagements:*

* **Form and oversee** 10-member engineering team that built and deployed **AML/KYC & Activity** monitoring system. **Responsible** for overall technical design, AML / Legal business stakeholders’ interaction, and own technology roadmap. **Key** **goals** a) Scrutinize incoming investment and identity documents b) Real-time rule-based transaction screening and suspicious activity reporting c) Meet regulatory compliance and calibrate investment risk to the franchise based on a point system across ~800K controllers/owners and ~5K legal entities and millions of legal documents. AML platform contributed to 7% **increase in top-line revenue** of MSFS business unit.
* **Oversee** 5-member team focused on improving effectiveness, horizontally scale and maintain **Data Entitlements & Security** application using single responsibility pattern-based APIs, distributed compute/cache, and content validation. **Responsible** for technical architectural choices, design and code reviews. **Key** **goals** a) Guard client trade-secrets/PII/MNPI data, stop misdirected communication/data-leaks b) Centrally house and maintain ~3.5 billion entitlement units spanning 90+ dependent applications and serve 250,000 requests/day. **Improved** **API response time** to 200 msec/request (improvement of 400%)
* **Oversee** 15-member globally distributed team focused on Modularizing, Enhancing, and Scaling **FS-Investor Datawarehouse (FSID)** by using data de-duplication/centralizing techniques, enforcing standards & APIs. **Responsible** for technical design/code-reviews, coach team members, collaborate with product owners/external teams/business stakeholders and own technical roadmap for the warehouse. Improvements have helped **reduce business unit staffing** needs by 10% YoY (~120 FTE). **Key goals** a) Maintain the sanctity of the authoritative reference data and transfer agency system b) house ~250 million+ physical documents and 6000+ curated attributes spanning ~850K investor relationships and 5K legal entities/companies across the globe. b) Externalize data access using APIs c) Modularize application in order to make it extensible.
* **Lead and oversee** 13-member global team building a configurable business process modelling and advanced reporting framework to generate, orchestrate, assign inter-dependent business tasks across workflow processes. **Responsible** for overall technical design, establish sound engineering practices, conformance to industry standards, collaborate and extend the framework adoption to other departments within Morgan Stanley. **Played** an instrumental role in eliminating manual checklists plus regional hand-offs improving overall client delivery time by >40%. Scaled the application to handle ~4 million tasks/per month (with avg. execution time under 1 sec) using modern distributed computing solutions.
* Conceptualized, convinced senior business management, developed and delivered a fault-tolerant document data-scrapping engine as a part of **Automation Focus Squad**. Implementation tremendously boosted client confidence around data capture and improved information extraction time by 75%. Team size: 3
* Member of the NY campus recruitment and Technology Diversity committee which focuses on recruiting, growing, and mentoring diverse talent into the firm.

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| **Vice President**  ***Role:* Tech Lead (MSFS – Tax Analysis and Partner Accounting/Allocations)** | Jan 2013- Dec 2016 | New York |

*Primary Tech:* Core Java (JDK-6), Sybase, MQ, CPS, Adobe Flex. SOAP Webservices/APIs, Perforce, Jira, Scrum/Kanban.

*Projects & Engagements*

* **Led** an 8-member global team that helped built the **Tax Portal** application. **Key goals** a) Meet US hedge fund tax regulations for identifying wash sales triggering transactions and report on Qualified Dividends b) Perform tax income allocations and generate/distribute K-1 engine for hedge fund investors. **Responsible** for designing and developing the tax allocation engine **Built** a market differentiating engine that analyzes millions of tax lots daily against existing client trading activity and alerts traders to make tax-efficient trading decision helping generate profits for clients. The tax portal helped MSFS **improve business topline** revenue by 10%
* **Led** a 6-member in-house technology build effort to replace vendor application for calculating month-end NAVs for hedge funds. Doing approximately 2 mil Account Allocations, fee and investment RoR calculations per-period, this system buildout **saved** multi-million $’s in yearly vendor license cost and **gained** competitive advantage for the business.

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| **Morgan Stanley Advantage Services** | Mumbai, New York | | **Jan 2006 - Jan 2013** |
| **Vice President**  ***Role:* Tech Lead (Allocations & Statement Reporting)** | Jan 2011 - Jan 2013| Mumbai | |

***Primary Tech:*** Core Java (JDK 6), Sybase, MQ, Adobe/Excel open source APIs

*Projects & Engagements*

* **Lead developer** on a 9-member team that help implement an Income/Expense allocation engine. **Helped** meet core accounting business obligations of generating and distributing statement of change reports for hedge fund clients. The system operated on ~100 million account allocations/per month across 600K Fund-Investors.

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| **Senior Associate**  **Role: Software programmer** | Jan 2006 -Jan 2011| New York |

***Primary Tech:*** Core Java (JDK 6), SOAP, MQ, Informatica ETL, Sybase, file reading libraries, C#, pdfbox/aspose, SWIFT messaging.

*Projects & Engagements*

* **Led** 6-member local development efforts to implement a configurable reconciliation system that performed position, transaction and cash-balance reconciliations for all Hedge Fund clients. **Developed** rule-based ‘daily-breaks’ auto-commenting module that **helped reduce** break resolution time by 90%.
* Implemented Income, revenue and cash management system. **Responsible** to build rate-slabs based billing engine to calculate client bills, generate billing reports and track revenue, helping the COO office to **eliminate** manual tracking and **improved** bill collection rates by 30%.

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| **Mastek Ltd.** | London - UK, Mumbai - India | **Jan 2003 - Jan 2006** |

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| **Senior Software Programmer**  **Client – Healthcare Savings Association Inc.** | Feb 2005 - Jan2006 | London |

* Developed modules to replace legacy IBM mainframe with distributed design / codebase in healthcare claims processing space.
  + ***Tech Stack:*** Core-java, EJBs, Multi-threading and Java-AWT, Oracle 9G, JSP, servlets, Struts.

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| **Software Programmer**  **Java Technology Center of Excellence** | Jan 2003 - Dec 2004 | Mumbai |

* Got selected to the CoE based on performance amongst 140 new joined graduates.
* Collaborated, identified and implemented multiple reusable frameworks to help client RFPs and winning client for the firm.
* Contributed to apache commons open source ecosystem on-behalf of the company.
  + ***Tech Stack:*** Java based technologies, libraries and APIs, webload testing frameworks

**EDUCATION/INTERNSHIP**

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| **Bachelors in Engineering** | Electronics & Telecommunication  First Class with Distinction, Mumbai University, India | **June 1998-June 2002** |
| **Internship @ IIT - Mumbai**  Implemented SIP protocol handshake using VB.Net to make VoIP based phone calls. | **June 2001-April 2002** |

**INTERESTS:**

Travelling, Photography, Capital Markets, Volunteering, Hindustani Music.