**Strategic Program Leader with 15+ years of experience driving technology and data innovation across algorithmic trading, risk, compliance, clearing and electronic markets. Proven track record of platform delivery, ML integration, and executive stakeholder management at top-tier global financial institutions.**

Man Avinash Singh Gill, CQF

646-924-9503 | [msg8924@gmail.com](mailto:msg8924@gmail.com) | <https://www.linkedin.com/in/man-avinash-gill-a7110221/>

**EXPERIENCE**

**Head of Program Delivery – Algorithmic Trading & ML Infrastructure**

**HAP Capital,** New York, NY, USA October 2021 – Present

* Directed **$10M+ programs** across **Equity Options trading** in **US and HK markets**, achieving **3x revenue growth** and **20% cost reduction** through **strategic planning** and **cross-functional delivery**.
* Partnered with **C-level leadership** to drive strategic initiatives: collaborated with the **CTO** to align **infrastructure** and **compute resources** with evolving **ML workloads and model training pipelines**; with the **CCO** to embed **compliance checks and controls** into project workflows; with the **CFO** to forecast **budgets** and build **financial dashboards**; and with the **COO** to streamline **operations** and deploy **AI tools** for **automation** and efficiency.
* Drove the **roadmap** for **low-latency infrastructure**, **product features**, and **trading system enhancements**, aligning with **business priorities** and **regulatory standards**.
* Led integration of **AI/ML models** into **trading strategies**, **execution optimization**, and **forecasting tools**, improving **decision-making** and **performance tracking**.
* Developed **Python scripts** for **data validation**, **automation of reporting processes**, and **analysis of trading performance metrics**, enhancing **team efficiency** and **data accuracy**.
* Oversaw **onboarding and management of reference, market, and alternative datasets** to support **ML model development** and **analytics**.
* Acted as central coordinator for **project prioritization**, **technical delegation**, and **cross-team alignment** across **engineering**, **quant**, **compliance**, and **business units**.
* Implemented **agile delivery tools** (**JIRA**, **Confluence**) and **governance frameworks** to manage **risk**, **timelines**, and **stakeholder expectations**.
* Produced **executive reports** and **KPI dashboards** to communicate **milestones**, **risks**, and **financial performance** to **senior leadership**.

**AI Program Lead – Compliance Surveillance & Risk Analytics**

**Goldman Sachs**, New York, NY, USA August 2017 – October 2021

* Led the design and deployment of a high-performance **gradient-boosted ML model** to detect **insider trading risks**, significantly improving **precision**, **recall**, and the quality of **surveillance alerts** for **compliance analysts**.
* Owned the **product roadmap** for the **Trading on Insider Information (TOII)** platform, driving the **vision**, **prioritization**, and **delivery** of key features for a **scalable Big Data solution** processing **millions of trades daily**.
* **Architected and launched** the **TOII platform**, supporting **real-time** and **historical surveillance** to enhance **compliance effectiveness** and **risk detection**.
* Directed a **team of developers**, ensuring timely delivery of **high-quality software components** aligned with **business goals** and **technical specifications**.
* Managed **complex project timelines** and **cross-functional dependencies**; orchestrated end-to-end **User Acceptance Testing (UAT)** to ensure **seamless integration** and **stakeholder satisfaction**.
* Compiled and delivered **executive-level reports** detailing **key metrics**, **KPIs**, and **project progress**, providing **transparency** and **actionable insights** to **senior leadership**.
* Collaborated with the **Compliance division** to evaluate and integrate **emerging technologies** and **architectural enhancements**, boosting **system efficiency** and **scalability**.
* Engaged with **Audit** and **Model Risk Management** teams to **remediate findings**, align with **regulatory expectations**, and reduce **model risk exposure**.

**Program Lead – Risk & PnL Analytics Platforms**

**Credit Suisse**, New York, NY, USA July 2014 – August 2016

* Provided end-to-end **program leadership** for the design and delivery of a **Risk-Based PnL Big Data platform**, awarded the **2015 Banking Technology Award** for “**Best Use of IT in Investment Banking**,” recognizing **innovation** and **operational excellence**.
* Owned and executed the **program roadmap**, aligning **platform development** with **strategic business objectives** and **risk transparency goals**.
* Acted as **Product Owner** and primary liaison between **business stakeholders** and **technical teams**, driving **requirements definition**, **feature prioritization**, and **value-focused delivery**.
* Led a team of **three data analysts**, managing **workstreams** across **development**, **User Acceptance Testing (UAT)**, and **platform performance optimization**.
* Oversaw **program governance**, ensuring effective **issue tracking**, **milestone management**, and **risk mitigation** across all phases of delivery.
* Delivered regular **executive updates** on **program health**, **KPIs**, and **risk metrics**, ensuring **clear visibility** and alignment with **senior leadership**.
* Cultivated strong **cross-functional collaboration** across **risk**, **finance**, **operations**, and **technology teams** to ensure smooth **integration** and **adoption** of the platform.

**Lead Program Manager – Regulatory Clearing Platforms**

**Barclays**, New York, NY, USA May 2013 – June 2014

* Led the **end-to-end design and rollout** of a new **clearing platform**, ensuring full **regulatory compliance** and significantly enhancing **operational efficiency** across the organization.
* Defined and executed the **product roadmap**, aligning **technology delivery** with **business goals**, **regulatory milestones**, and **industry demands** to support **Barclays' leadership** in the **clearing space**.
* Served as **Product Owner**, overseeing **cross-functional development teams** to deliver **scalable**, **cost-effective solutions** aligned with **strategic** and **regulatory objectives**.
* Acted as the **primary liaison** for **third-party software integration**, enhancing **API connectivity** with **Swap Execution Facilities (SEFs)** and external **trading platforms** to boost **system capability** and **interoperability**.
* **Demoed the platform** directly to the **Head of the CFTC**, highlighting its **regulatory robustness** and **innovation**, reinforcing Barclays’ reputation as a **trusted**, **forward-thinking market leader**.
* Worked collaboratively with **industry participants**, including **clearinghouses**, **trading venues**, and **counterparties**, to shape and implement **cross-industry solutions** that strengthened **Barclays' market positioning**.
* Played a key role in maintaining **Barclays’ #1 position** as a **global clearing broker**, ensuring technology solutions met **evolving market expectations**, **operational excellence standards**, and **compliance requirements**.
* Tracked and reported **program KPIs**, **risks**, and **milestones** to **senior management**, enabling **transparency** and **proactive course correction**.
* Led **vendor evaluations** and managed **third-party partnerships** to extend the platform’s **technical capabilities** and **long-term scalability**.
* Fostered strong **internal and external collaboration** to drive the **successful**, **on-time delivery** of the platform in a **complex, high-stakes regulatory environment**.

**Technical Program Manager – Credit e-Trading Solutions**

**Barclays**, New York, NY, USA May 2010 – May 2013

* Directed the end-to-end launch of a next-generation **Credit e-Trading platform**, enabling **Credit Index and Single-Name trading** for High Grade and High Yield desks, and significantly enhancing execution speed, market responsiveness, and electronic trading capabilities.
* Owned the **product roadmap** and served as **Product Owner**, translating strategic trading objectives into executable development plans and ensuring timely delivery of high-impact features.
* Authored detailed **product requirement documents, user stories, and technical specifications**, driving alignment between trading desks, development teams, and regulatory stakeholders.
* Managed complex project timelines and interdependencies, overseeing **User Acceptance Testing (UAT)** and ensuring seamless deployment aligned with trader needs and compliance standards.
* Partnered with the **UX team** to design intuitive, efficient user interfaces, leading to improved trader workflow and adoption across credit trading desks.
* Developed expertise in **e-Trading workflows**, collaborating with **Swap Execution Facilities (SEFs)** and **Electronic Communication Networks (ECNs)** to enhance API integration and deliver new capabilities that improved speed, accuracy, and system interoperability.
* Engaged across internal stakeholders — including trading, technology, risk, compliance, and support — to ensure holistic platform delivery and sustained operational excellence.
* Provided comprehensive production support and led issue resolution efforts, maintaining high platform availability and responsiveness to front-office needs.
* Played a key role in **advancing Barclays’ electronic trading strategy** and reinforcing its **market leadership in credit trading** through cutting-edge technology, cross-functional collaboration, and industry engagement.

**Technical Program Manager – Trading Analytics & Workflow Automation**

**JPMorgan**, New York, NY, USA July 2006 – May 2010

* Led the delivery of advanced **analytics solutions and e-Trading enhancements** for High Grade and High Yield trading desks, significantly improving execution quality, trader productivity, and market competitiveness.
* Served as **Product Owner**, defining project scope, managing evolving requirements, and steering cross-functional development teams to deliver solutions aligned with strategic business objectives.
* Managed full project lifecycle, overseeing timelines, dependencies, and stakeholder alignment; coordinated comprehensive **User Acceptance Testing (UAT)** to ensure smooth platform integration and user satisfaction.
* Collaborated with the **User Experience (UX) team** to enhance platform usability, resulting in improved interface design and more intuitive workflows for front-office users.
* Delivered continuous production support and led issue triage to maintain **platform reliability and trading continuity**, ensuring minimal disruption to trading operations.
* Worked closely with front-office, technology, and support teams to bridge business and technical requirements, fostering alignment and successful delivery in a fast-paced trading environment.

**EDUCATION**

**M.S., Data Science**  2019 – present

JOHNS HOPKINS UNIVERSITY, Online

**M.S., Quantitative Finance** 2016 - 2017

FORDHAM UNIVERSITY, New York, NY, USA

**M.B.A** 2011 - 2014

BARUCH COLLEGE, New York, NY, USA

**B.S, Information Technology** 2002 - 2006

Rochester Institute of Technology, Rochester, NY, USA

**Certificates**

**Certificate in Quantitative Finance** 2024 - 2025

CQF Institute

**SKILLS**

**Programming & Scripting:** Python, Java, R, SQL, VBA, Bash  
**Environments:** Unix and Windows  
**Data & Analytics Tools:** Tableau, Alteryx, Excel, Visio  
**Big Data & ML Technologies:** Supervised/Unsupervised Learning, Model Governance, AI/ML Integration, Data Pipelines, MapReduce, Hadoop  
**Technologies:** API Integration, Low-Latency Systems, Infrastructure Planning, DevOps Collaboration  
**Project & Program Management:** Agile, Scrum, Waterfall, Hybrid, JIRA, Confluence, MS Project, SharePoint  
**Business Analysis:** Requirements Gathering, Stakeholder Interviews, Process Mapping, Functional Requirements Documents (FRDs), Business Requirements Documents (BRDs), Use Cases, User Stories, Gap Analysis  
**Financial & Trading Domain:** Algorithmic Trading, e-Trading, Electronic Markets, P&L Analytics, Risk Management, Compliance, Clearing   
**Asset Classes:** Equities, Equity Options, Credit (High Grade & High Yield), Credit Index, Fixed Income, Derivatives  
**Leadership & Delivery:** Product Ownership, Stakeholder Management, Cross-Functional Team Leadership, Executive Reporting, Vendor Management, UAT Coordination, Executive Reporting, Vendor Management, UAT Coordination