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# Joe Intrakamhang

## PROFESSIONAL EXPERIENCE

**Google**                                                                                  **2021 - Present**

*Product Manager*

Data product lead for an internal Google procurement organization.  Led multiple data efforts in a fast growing team across platforms, analytics and ML for the entire Google wide supplier and category spend.

- Led a spend categorization team to improve the machine learning accuracy of categorizing invoices.
- Responsible for a team of 45 data labelers to categorize invoice data.

**Google**                                                                                     **2020 - 2021**

*Cloud Solutions Architect*

Google cloud architect to enable the largest Google Cloud customers achieve their cloud goals.  Responsible for helping customers layout their data architecture and publications of data articles.

- Published a blog with X on data unsiloing to solve food waste and food hunger in America.  The publication has been published on 18+ different mediums.  X blog here, Google Cloud blog here and here.
- Designed a multi-cloud architecture for the world's largest aviation manufacturer to analyze their supply chain.
- Created a milk chain optimization model for the USA largest diary supplier to optimize their milk supply.
- Unblocked a major restaurant bakery cafe technical data issues so they can increase their velocity on orders per second.
- Utilizing my mainframe and X's knowledge, I was able to broker a conversation between the largest travel company and X on their mainframe conversion project.

**X, Moonshot Factory, Formerly Google [X]**                                **2018 - 2020**

*Data Science Lead*

X is a secretive startup incubator within Google.  Created a smarter food system — one that knows where the food is, what state it's in, and where best to direct it to ensure it doesn't end up in a landfill and instead goes to the people who need it most.

- Took 2 early stage projects and performed the necessary market field research to see if the moonshot was viable and grew both of the moonshots from 1-2 folks on each of the moonshot team to teams of 10.
- The hiring of the teams included PhD data scientists, software engineers, front end engineers, program managers and project managers.
- Created a new data science team within the division to analyze the vast amount of records to find market signals.
- Created a pipeline to ingest, cleanse and analyze over 500M rows of disparate data sets in BigQuery.
- Ingested real time Cloud IoT data and performed analysis to find data correlation and causation within DataStore, BigTable and BigQuery.

- Data storyteller to explain complex data analysis in executive terms to all for internal stakeholders and external stakeholders.
- Responsible for building key business partnerships to ensure the project met the market demand.

**Google**                                                                    **2016 - 2018**
*Solutions Engineer*

Help customers transform and innovate their business through the use of Google cloud platform. Created a SWAT team to help customers transform and innovate their business through the use of Google cloud and proof of concepts engagements.
- Built and migrated multiple customer databases and data lakes to ensure proper query performance and customer requirements.
- Migrated a retail customer from 2 PB of Teradata to Google BigQuery database. The migration saved the client 1 million dollars per year.
- Architect a grid computing solution for a financial firm to be able to utilize 100k cores on Google Compute Engine.
- Transform a hospital and health care business from their legacy data warehouse to Google's big data solution. The transformation saved 60% on operational costs and improved their data ingestion by 2x.
- Public speaker at meetups and conferences discussing Google Cloud Platform.

**Neuberger Berman**                                                          **2011 - 2016**
*Solutions Architect / Lead Developer, VP*

Architect for the investor studio platform. Responsible for identifying alpha trading decisions, signal generation, code tuning and code modernization.
- Created a signal generation system based on the portfolio manager rules.
- Designed a trend analysis application to monitor daily analytic changes.

Architect for the enterprise data service organization. The division is a brand new organization unit within the firm. The EDS group is responsible to be the single version of truth for data. Responsible for setting new technology standards, code testing standards, and mentoring other groups to the new standards.
- Designed the overall architecture for the new enterprise data service division. This involved the web front-end architecture, Java middleware service bus architecture, and database schema architecture.
- Created a FIX based reporting application to report the TRACE trades to FINRA.
- Created a TBA web-based processing application. This was to facilitate the communication between the 3rd party TBA processor and the accounting system.

Technical lead for the fixed income organization. Responsible for leading new application development initiatives and providing technical guidance for other projects to ensure effective implementation design plans.
- Built the first Neuberger Berman commercial mortgage forecasting application that is sold to multiple financial companies and is also being used internally. The application forecasts the mortgage portfolio exposure based on future macroeconomic conditions, various statistically models and modification strategies. The application was built using the latest Microsoft technologies (C# .NET 4.0, WPF 4.0, and Entity Framework 4.0) and agile methodologies.

- Lead the development efforts for the Lehman bankruptcy software migration. This involved migrating, porting, and upgrading the fixed income applications from the Lehman infrastructure to the Neuberger Berman's data center infrastructure. The transition was successful and finished ahead of schedule saving the company $15 million in infrastructure costs.
- Managed a development team of 2 full time employees and 2 consultants.

## Lehman Brothers                                                      2006 - 2008
### Sr. Developer
Senior developer for the fixed income order management system, reporting solutions and the supporting applications.

- Lead developer for an internal fixed income trading system. The desktop application is responsible for portfolio management decisions, bond trading, derivatives trading, mortgage trading, FIX messaging, confirmations, and reconciliations.
- Increased the capabilities of the order management system by introducing short, forward repo, and future trading concepts.
- Led training classes to orient new traders on the order management system.
- Reduced the post trade processing time by 3 hours per day through the automation of the back office operations.
- Mentored and trained new employees to acclimate them to the business and the technologies.
- Maintained vendor relationship for TradeWeb, MarketAxess, NYFix, and Business Objects.

## Northern Trust                                                      2005 – 2006
### Senior Systems Analyst
Enhanced and maintained a pension payment on-line web system. The pension system was designed around a third party vendor, Lawson, but was completely revamped for Northern Trust specifics.

- Developed and enhanced the pension system to handle international transactions from a USA based transaction system utilizing the J2EE architecture.
- Developed the pdf tax reprint system for generating tax forms in real time.
- Increased the system response time by fixing memory leaks and bottlenecks.
- Mentored and trained junior java developers on understanding the Java language, Java Servlet technology and Java EJB's.
- Lead developer on designing and developing an automated process for streamlining the payment batch stream by coding a UNIX script and a batch program saving the company $40,000 a year.

## Caremark                                                      2002– 2005
### Programmer Analyst
Designed, developed and implemented a new Java web based drug health benefit system. The system was a conversion from an OS2 application. The benefit system allowed real time changes to the client's health plans.

- Successfully implemented the Federal Employee Government Program project under tight deadlines through cross-team collaboration and teamwork to increase company revenues by 1.6 billion dollars.
- Developed new java applications using Caremark's Java framework system and MVC architecture of n-tiered systems.

- Utilized MQ Series to enable communication between the Java front-end to the mainframe back-end.
- Developed, implemented, and introduced DB2 stored procedures for the Java and Mainframe environments.
- Identified areas for improvement and proposed alternative solutions for long running Java batch programs thus resulting in 75 percent savings in CPU time.
- Introduced a new framework to submit mainframe jobs from Java.
- Mentored and trained new hires on technical processes and policies.

## EDUCATION

**M.B.A. in Finance**                                                                                    May 2007
*Roosevelt University, Schaumburg, Illinois*

**Bachelor of Science – Computer Science and Computational Mathematics**   May 2002
*Northern Illinois University, DeKalb, Illinois (Double Major in 3 Years)*