

# Matthew Yeseta

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## Chief Technology Officer | Data Engineering | Data Science

Strategy Leadership | Master Data Science | Machine Learning | Data Science Predictive Analytics

Chief Technology Officer leadership in strategy and roadmaps for Information Technology and research infrastructure, BlockChain cryptocurrency chain-code, token protocols, exchange endorsement, validation, distributed database. Hands on leadership in Amazon AWS, Lambda, Glue, Athena, Java, Python, Big Data Architecture with Hadoop, self-healing Hystrix Micro Services, healthcare center of excellence team for data governance and oversight of analytics machine learnings for enterprise analytics healthcare solutions, Leadership in hiring staff and working with HR. Strategic planning for business revenue models. Effective in communication standards, collaboration with fund raising with venture capitalist. Data Scientist for leadership in data science insurance analytics. Effective in SQL development for 15 years with large database administration, design for Oracle, MySQL database, PostgreSQL database, MS Server database, ArcGIS and PostgreGIS Python, RFI, RFP, architecture designs, standards, products, frameworks

Data Warehouse Architecture for data warehouse analytics, C code software development, MDM, IBM InfoSphere master data management, BI data warehouse architecture, ETL data strategy for structured / unstructured, SQL development for 15 years with large database administration, Oracle, MySQL database, PostgreSQL database, MS Server database, DB2, Teradata data analytics, Erwin data modeling, ArcGIS geodatabase, PostgreGIS Python, DataStage, backup, database normalization design, data modeling (Erwin), Apache Spark Streaming Analytics

Spearheaded quantitative research for predictive analytics resulting from qualitative research results from ethnographic observations from broker community on property & casualty liability. Hands on leadership in data analytics ML (Machine Learning), Data Visualization Tableau, Shiny. Data Science R and Python, SAS for Data Science, R predictive analytics, time series forecasting, machine learning neural network deployment, NLTK NLP Python natural text mining, deep learning, leading research for data science, numeric data problem solving, delivering analytics with data science data pipelines, spearheaded Bayesian network statistics for predictive analytics.

### EXPERTISE

- Chief Data Officer
- Chief Technology Officer
- BlockChain Architecture
- Data Pipeline Architecture
- Quantitative Research
- Qualitative Ethnographic & Content Research
- Data Scientist R | Python
- Data Management Leadership & Research
- Quantitative Analysis
- Predictive Data Analytics
- Time Series Forecasting
- Ethics in Leadership
- Project Management
- Multi-Million \$\$ Budgeting
- Fund Raising Strategies
- Cost & Profit Analysis
- Strategic Roadmap
- Organization Planning
- Data Architecture
- End-to-End Vision
- Cloud-Based Experience
- Data Transformation
- Agile Implementations

### ***Data Scientist Analytics Dashboards Avatar EPIC***

Department of Behavioral Health, Fresno (July-Sept 2019)  
Spearheading behavioral health data science analytics, driving CDO data platform innovation strategy in organization that did not tolerate innovation

### ***Chief Technology Officer, BlockChain Architect, Chief Data Scientist***

Snowball.money, San Francisco, California (2018)  
Chief Technology Officer Management Team, BlockChain, Data Officer for data analytics strategy, Chief Data Scientist R coding. Responsible for BlockChain Architecture, BlockChain Hyper-Ledger development, managing onsite & offshore BlockChain development team, responsible for hiring BlockChain developers, BlockChain cryptocurrency chain-code for token protocols (ETH, Bitcoin, NEM, EOS, QTUM, BitShares), Web3, BlockChain exchange (endorsement, validation, proposal inspection), BlockChain distributed database, BlockChain regulations leadership. Facebook API, Twitter API, Python, R data science analytics, Convolutional Neural Network, Recurrent Neural Network, stochastic gradient descent, Long Short-Term Memory, Jupyter Notebook, machine learning, unstructured data

### ***Chief Technology Officer, Chief Data Officer, Data Scientist***

Athena Intelligence (Artificial Intelligence) Sacramento, California (2017-2018)  
Chief Technology Officer, Supply Chain Leadership in strategy for data analytics and data science Machine Learning, Tableau, Shiny, Amazon AWS, Lambda, Glue, Athena, Python Analytics Machine Learning. [IoT] Internet of Earth's Essential Limited Resources. Digital Image processing data analytics (image, segmentation). Python Matplotlib, image, raster image processing for vegetation multispectral image datasets. Qualitative research on GIS media for land data and image to ascertain application for statistical analysis to find viable data patterns of multi-variable correlation coefficient results and plots. Government & private datasets. PostgreSQL/PostgreGIS

**Micro Services Architect, Blockchain Architect, Solutions Architect**

2015

Anthem, Thousand Oaks, California

Responsible for strategic thinking and leadership in providing innovative Micro Services architecture design and technology selection for the enterprise Broker insurance portal personal lines policies implementation. Leadership in backend Micro Service domain design and implementation. Provided micro services X-axis scaling, Y-axis scaling. Managed and mentored 15-member staff on the benefits & advantages of Micro-Services, Pentaho ETL data collection. Java and NLP Python text mining text mining for data mining and text analysis for large data insurance

**Chief Technology Officer & Engineering Manager, Director Data Science Analytics**

2012 - 2015

Nimbler Inc., San Francisco, California

Director of Data Science & Chief Technology Officer management leadership for property & casualty insurance, revenue models and customer engagement, quantitative research and data science predictive analytics. Spearheaded quantitative research for predictive analytics resulting from qualitative research results from ethnographic observations from broker community on property & casualty liability insurance policy data. Senior Data Scientist SAS, Java, Python Machine Learning, R Neural Network Deep Learning property & casualty recommendations engine. Data Science classification, clustering, dimension reduction, transformation, regression linear model & ensemble models), Bayesian prediction, stochastic gradient descent, supervised/unsupervised data, generalized linear regression models.

**Director Artificial Intelligence Machine Learning Technology**

2013 - 2014

Arubixs, San Francisco, California

Director Head Artificial Intelligence Machine Learning Intelligence Technology and Data Science Engineering, ML Deep Learning leadership in R Neural Networks Deep Learning and R statistics & data infrastructure pipelines for data collection, contributed to essential revenue models, strategic planning for revenue models, collaboration and engagement for revenue discussion. Key engagement for strategy and funding. Managed direct line of communication with CEO regarding IT operations, budget and strategy decisions and leadership presentations. Leadership in strategic initiatives, innovative solutions for data science to meet analytic market segment. Leadership in building personalization recommendation engine and channel relationship, data infrastructure pipelines for data collection.

**VP Level Enterprise Java Solutions Architect**

2013 – 2014

Wipro, Mountain View, CA.

Enterprise Java Solutions Architect responsible for design, development, leadership, implementation

**Chief Technology Officer, Chief Data Architect, Director Data Scientist, Chief Java Architect**

2012 – 2013

FizzJam, San Jose, CA.

Chief Data Architect, Chief Technology Officer Manager for software team. Chief Java Architect for major Java design and development. Director Head of Data Science for data science numpy & scikit-learn machine learning development, C software development, neural network deep learning, statistics probability Bayesian prediction, naive Bayes mode, Bayesian classifiers, Bayesian networks, linear regression, stochastic gradient descent.

**Chief Technology Officer, Big Data Architect, Director of Data Science Engineer**

2012

Itron, San Mateo, CA.

Chief Technology Officer Manager, Data Architect, promoted to Director Data Science Engineering and SOA Architecture, IoT Wireless Architect responsible for C code ZigBee on Cellular & Wifi 802.11 Communication server for SmartGrid Wifi gateway, data collection meter billing, Bluetooth, M2M HAN machine-to-machine resource dashboard. Big Data Architect, Database Architect, DBA Oracle/MS SQL, Chief Data Architect responsible for data warehouse MDM master data management design, BI data warehouse architecture for ETL & managing data strategy for structured and unstructured big data solution. Chief Data Architect responsible for data warehouse MDM master data management design, BI data warehouse architecture for ETL & data strategy for structured and unstructured big data

**Enterprise Analytics Architect, Solution Architect, Application Manager, Big Data Architect**

2008 – 2011

Kaiser Permanente, CA.

Responsible for implementation delivery on Solution Analytics, Architecture, SOA Architecture, Big Data Hadoop for broker community system, delivered a broker life insurance policy system that aggregated multiple policy for procuring quotes / policy, giving independent brokers easy fiduciary collaboration between insurance brokers and insurance companies on quotes, commercial lines, personal lines policies. Data Architect managing data quality and data production databases in Oracle, AWS, MS SQL Server, BPM, data modeling (Erwin), SQL development (PL/SQL)

**VP Engineering, Enterprise Architect, Cloud Architect (Consultant)**

2008

Department Health Services / CA Department Social Services, Sacramento, CA.

**Enterprise Architect, System Architect (Consultant)**

PG&E, San Francisco, CA. 2007

**Vice President, SOA Architect, Lead C# SOA Micro Services**

Bank of America, Concord, CA. 2006 – 2007

**Enterprise Solution Architecture / SOA Architect**

UnitedHealth / PacifiCare Health, Cypress, CA (2005–2006)

Responsible for SOA Architecture for retail insurance clients, Java development implementation delivery on broker community system, delivered a broker life insurance policy system that aggregated multiple policy for procuring quotes / policy, giving independent brokers easy fiduciary collaboration between insurance brokers and insurance companies on quotes, commercial lines, Requests for Information (RFI), Request for Proposals (RFP) for third-party application solutions, SME on solutions designs

**Enterprise Architect Supply Chain Architect, SOA Architect, Project Manager**

Numerous Fortune 500 Company positions (2000 – 2006)

**EDUCATION & CERTIFICATIONS****Master of Data Science (2018 - 2020)**

University of Wisconsin, Data Science Graduate Program

**Business Intelligence Data Science Certificate (2017 - 2018)**

Missouri University of Science & Technology

**Bachelor of Science | Business Administration (Computer and Information Science)**

California State Polytechnic University