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Manhattan, NY



## EXPERTISE

Artificial Intelligence (AI)

Machine Learning (ML)

Responsible AI

DataOps, MLOps, Infrastructure

Innovation & Experimentation

Product & Platform Strategy

Strategic Storytelling

Design Thinking

Agile Methodology

## EDUCATION

Digital Strategy

**Section4 Business Strategy**

Product Management

**Product School**

Big Data Strategy

Design Thinking

**Rutgers Innovation Center**

Credits Forward / MS Data Science

**Data ScienceTech Institute**

Immersive, Data Science

**Galvanize**

BS Electrical Engineering

**Lehigh University**

## SUMMARY

Accomplished AI/ML technology leader skilled in defining, executing, and scaling out strategic early-stage responsible and robust machine intelligent systems and enterprise program initiatives. Recognized as a creative cross-functional leader for identifying new innovative opportunities, driving effective decision making, and delivering on high value propositions, while continually de-risking roadmap capabilities.

## EXPERIENCE

**Beyond Limits** | Manhattan, NY

2021 – Present

*Senior AI Strategist and Technology Systems Architect – Office of CTO (OCTO)*

*Advance AI R&D portfolio growth investments, construct processes to scale the organization, collaborate with C-Suite on future R&D innovation horizon opportunities*

- Lead AI PaaS ecosystem strategy, systems architecture, requirements, and roadmap planning for Hybrid AI, pairing data-centric ML with cognitive symbolic knowledge constraint reasoning with explainable audit trails for actionable decision support
- Identify key AI PaaS scenarios and benefits, designing and architecting capabilities and IP to mitigate incident violations and exposure via higher-order KB concepts, strengthening model integrity robustness, and reducing time to corrective actions
- Execute client discovery sessions, craft SOW proposals, transform AI systems design architecture and implementation to overcome barriers across healthcare monitoring edge vision object trajectory tracking, disrupting the HVAC market for energy efficiency savings, and improving clinical preventive care risk stratification

**ThoughtWorks** | Manhattan, NY

2018 – 2020

*Principal Data Scientist – Professional Services (PS)*

*Shape machine intelligent impactful portfolio offerings, accelerate early-stage inbound pursuits, improve processes for project acquisition, and lead client discovery workshops*

- Boosted multimodal semantic information retrieval (IR) search microsite ranking lift, blending content governance, query disambiguation, and entity linking KBs
- Improved model robustness via constructing guardrails, decision judgement layers, and behavioral testing for group fairness and equal opportunity disparities across use cases in information retrieval (IR) and data journalism complain registries (CRs)
- Optimized supply chain lubricant inventory order fulfillment via safety stock demand forecasting, anomaly outlier detection, and truck packing convex solver constraints

**Skymind / Pathmind** | San Francisco, CA

2017 – 2019

*Deep Learning Engineer Consultant – Product and Solutions Architecture*

*Create and champion deep learning offerings (TensorFlow, PyTorch, DL4J) from research to production across text, vision, and reinforcement simulation technologies*

- Enabled business development in partnership engagements, benchmarking optimizations (Intel Xeon 2<sup>nd</sup> Gen with MKL), and enterprise L&D training workshops
- Strengthened the reinforcement learning (RLlib, Ray) Platform (PaaS) of decision agents for training and serving policies of simulation environments (AnyLogic)
- Improved conversational customer dialogue engines to semantically match query intents via distilled Transformer architectures and object detection pipelines to characterize poor welding joint robotic fusion behavior in an assembly line

## TECHNOLOGY

**Languages:** Python, R, SQL, Scala, Java, C/C++, ARM, JS, HTML, CSS

**Environments:** Jupyter, Colab, PyCharm, VSCode, RStudio, Zeppelin, IntelliJ, Eclipse

**Cloud:** AWS, Azure, GCP

**ML Ecosystems:** PyTorch, TensorFlow, DL4J, Scikit-learn, Hugging Face, Ray/RLlib, Gym, Apache Spark, spaCy, OpenCV, Optuna

**MLOps:** MLflow, Airflow, Tecton Feast, Docker, FastAPI, Prometheus/Grafana

**Databases:** Elasticsearch, Solr, MongoDB, Cassandra, Redis, PostgreSQL, Snowflake, Neo4J, MySQL, SQLite

**Apps & Visualization:** Streamlit, Tableau, Kibana, Grafana

**GitOps:** Git, Bitbucket, Perforce, ClearCase, SVN, PVCS, Travis, Jenkins, GoCD, GitHub Actions

**PM:** Jira, Pivotal Tracker, Aha, Basecamp, Bugzilla, Doors

**Collaborative Tooling:** Miro, Confluence, Notion, Airtable

## PATENTS

Device Localization based on a Learning Model (2017)

Interference Control in Wireless Communications (2016)

## EXPERIENCE (CONTINUED)

**JP Morgan Chase** | Manhattan, NY 2017 – 2018  
*Data Scientist – Digital Intelligence, Consumer and Community Banking (CCB)*

*Strengthen Chase personalization experiences and ML platforms, delivering scalable recommendation models and insights across their regulated governed lifecycle*

- Crafted implicit recommender ranking models serving branded loyalty offers to customers per their redemption history and spending propensity transactions
- Partnered with business units to deliver Chase card personalized targeted ad FOMO campaigns based on segmented cash flow spending behavior models
- Launched the suggestive nudge cash flow savings and investment initiative, implemented by scalable neighborhood embedding proximity (PLY) models

**Techstars** | Manhattan, NY 2017 – 2017  
*Technologist in Residence (TIR) – Venture Accelerator, IoT Division*

*Advise and facilitate the technology evolution of several seed entrepreneurial startup ventures in acquiring their next round of funding and advancing their roadmap offerings*

- Launched multiple starter kits for startups to transform their ML technology designs, e.g., from single node to distributive compute, augmented training data with synthetic simulation data, mocked experimentation scenarios and evaluations
- Scaled data connector services to accelerate concurrent onboarding and pilot execution via transforming brittle rule-based greedy methods towards a suite of enriched feature vectors with industrial domain knowledge encoding

**Otto** (formerly Tyto Life) | San Mateo, CA 2017 – 2017  
*Data Scientist Consultant – Products Division, Home Automation*

*Head the design, data acquisition, measurement, and pedestrian pattern detection for keyless secure door access control in residential and commercial environments*

- Reduced false positive (FP) tracking detections via denoising RF sensory inputs (BLE, Radar) deployed as on-device ARM target embedded firmware
- Established a new statistical modeling pipeline to diagnose and improve upon the industrial factory unit yield production and factor assembly labor productivity rates

## Prior Work Experiences

- Inria, Research Assistant – Spatio-Temporal Activity Recognition 2016 – 2016
- Nagra, Software Expert – Group Incubation & Innovation 2012 – 2015
- Sportvision, Special Projects – Office of CTO, NASCAR 2011 – 2012
- Broadcom, Principal Engineer – Systems Engineering 2011 – 2011
- Qualcomm, Staff Engineer – Computing Enablement 2007 – 2010
- TapRoot Systems, Principal Engineer – Mobile Products & PS 2003 – 2007
- Panasonic Mobile, Senior Engineer – Mobile Platforms 2000 – 2003
- Verizon Wireless, RF Engineer – RF Systems Performance 1999 – 2000

## Professional Affiliations

- Packt, Content Book Reviewer – Interpretable & Fair ML 2022 – Present
- Manning Publications, Content Advisor – Bias in ML 2020 – Present
- IEEE SA, Committee Member - Ethics of A/IS 2020 – 2022
- Rutgers Innovation, Advisory Board - Big Data Strategy 2018 – 2020