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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 ideating, researching, executing, and scaling out strategic early-stage responsible, robust machine intelligent systems and enterprise global program initiatives. Recognized as a creative cross-functional leader for identifying new innovative R&D opportunities, driving data-informed decision making, and delivering on high value propositions, while continually minimizing risk.

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 human audit trails for 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 behavior, and reducing time to corrective actions
- Execute client discovery sessions, craft SOW proposals, transform AI model design, design systems architecture and implementation for new innovative opportunities across healthcare monitoring edge vision object trajectory tracking, energy efficiency savings in HVAC systems, and clinical preventive care risk stratification

ThoughtWorks | Manhattan, NY

2018 – 2020

*Principal Data Scientist – Professional Services (PS)**Shape machine intelligent portfolio pursuits, collaborate on leading AI emerging trends, improve processes for strategic project acquisition, and lead client discovery workshops*

- Led the evolution of AI multimodal semantic search ranking microsite experiences, supplemented by content governance, query disambiguation, and KB entity linking
- Established responsible suites to improve model robustness, group fairness and equal opportunity disparities with guardrails, decision judgement layers, and behavioral testing per information retrieval and data journalism compliant registries
- Optimized inefficiencies in supply chain lubricant inventory order fulfillment, forecasting safety stock demand 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 2nd Gen with MKL), and enterprise L&D training workshops
- Facilitated the reinforcement learning (RLlib, Ray) PaaS architecture 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

TECHNOLOGIES

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 ML experiences and platforms, delivering scalable recommendation models and insights across their regulated governed lifecycle

- Crafted implicit personalized ranking models serving branded loyalty offers to customers per redemption history and spending propensity card 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 offering, 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 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