

# ROYCE MATHEWS

Dallas, TX | (972) 854-8483 | mathewsr23@gmail.com

## EXPERIENCE

---

### Dell Technologies

Remote

**Senior Software Engineer** AI Platform and Enterprise Solutions Research

October 2022 - Present

- Led the design and implementation of an AI model service mesh on multi-datacenter Kubernetes, scaling to **2M+ requests/day** with **99.99%** uptime.
- Led the redesign of the AI gateway's rate limiting feature, achieving **no-code deployments** of new models.
- Reduced **change request tickets by 90%** by empowering non-technical users across hundreds of projects via deployment of configurable rate-limiting capabilities backed by hardware usage telemetry.
- Built a distributed Batch Service to process **50K+ LLM requests per hour**, collaborating with the supply chain team to cut processing time by **3X** and **automate decision-making from days to hours**.
- Authored internal SDKs and reference examples to standardize GenAI integration across the company and accelerate adoption.

### JPMorgan Chase & Co.

Plano, TX

**Machine Learning Engineer** Risk Forecasting

October 2021 – October 2022

- Developed Kafka-backed end-to-end data pipelines ingesting **100K+ records daily** from multiple sources, performing transformations and feature generation.
- Enhanced business analyst workflows, **cutting analyst work items by 70%** by conducting early-stage data analysis, automating routine tasks, and adding confidence intervals to help prioritize work items.
- Containerized ML models as microservices using Docker and Kubernetes to simplify production inference and system integration.

### Motio, Inc.

Plano, TX

**Software Engineer** Business Intelligence Reporting Version Control

May 2016 - October 2021

- Secured the product's **largest customer** by designing and prototyping delegated authentication, enabling seamless Single Sign-On across multiple authentication providers.
- Reduced login time from **2s to 40ms (98% faster)** by optimizing Single Page Application (SPA) resource loading.
- Boosted **performance of restoring old reports by 100%** by identifying and optimizing costly SQL queries.

## PROJECTS AND VOLUNTEERING

---

- Contributed enhancements to RuneLite (**300K DAU**), improving idle notification plugin and engaging with its 200K-user community.
- Guided top 1% of UT Dallas CS students as an **ACM Industry Mentor**, providing project and career support.
- Placed **Top 10 city-wide** in JPMC Hackathon with a search ranking project that improved Confluence accuracy.

## EXPERTISE

---

<b>Languages</b>	Java, Python, Go, JavaScript, SQL (Postgres), NoSQL (MongoDB)
<b>Frameworks</b>	Spring, FastAPI, Asyncio, React, Node.js
<b>Technologies</b>	Kubernetes, Docker, Kafka, Redis, AWS (ECS, Lambda, S3), Prometheus, Grafana

## EDUCATION

---

### University of Texas at Dallas

BS in Computer Science - May 2017

Dean's List