ROHAN VARSHNEY

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EDUCATION

Georgia Institute of Technology   *Atlanta, GA*
B.S. in Computer Science (Modeling / Simulation & Intelligence Concentrations)   *Graduated May 2021*

SKILLS

Languages: Python, Golang, Java, Kotlin, SQL (Hive, Spark, Trino), TypeScript, HTML/CSS/JavaScript, Bash, C#, C
Technologies: Jupyter/Databricks Notebooks, Amazon Web Services (EKS, S3, Kinesis, Kafka, DynamoDB, Redis, OpenSearch), Docker, Apache Flink & Beam, NumPy & Pandas, Postman, Angular, Node.js, Slack, Cursor, GenAI/LLM (RAG)

EXPERIENCE

Lyft   *New York City, NY*
Senior Software Engineer (Features & Metrics)   *December 2025 – Present*
– Exercised end-to-end technical ownership for Feature Service's scope of Roaming initiative, architecting the strategy to scale Lyft's ML platform for European market expansion.
– Engineered a granular, metadata-driven access control framework to enforce GDPR compliance and PII protection at the individual feature level, sucessfully unblocking mission-critical fraud detection services while avoiding infrastructure overhead of redundant data silos.

Senior Software Engineer (Streaming Compute) **Blog | Video** ↗   *May 2023 – December 2025*
– Engineered OpenSearch ANN/KNN vector search support for Embeddings, unlocking LLM & RAG use cases for ML Platform.
– Led cost-saving optimizations totaling $450K+/yr through orchestration tool migration, Redis/EKS cluster tuning, and backing store consolidation.
– Evaluated managed solution for Feature Service, authoring 200+ pages of documents detailing current system capabilities, use cases, customers, hypothetical migration plans, & evaluation criteria. Led meetings with Director, Staffs, & TPMs.
– Spearheaded a cross-functional Data Contract initiative for T1/T2 tables, implementing automated SLA monitoring and PagerDuty alerting to mitigate quality risks.
– Architected and deployed a new Offline Data Python SDK that standardized feature selection and dataset generation workflows, saving ML Engineers ∼5 days of development time per model.

Software Engineer II (Data Persistence)   *August 2022 – May 2023*
– Automated T0 data consolidation workflows, saving hundreds of engineering hours across 20+ table onboardings.
– Cut SLA breaches, alerts, and failed redrives by 75% via systematic automation and stability improvements.
– Orchestrated the work of 6 Data Platform contractors to migrate and deprecate the Hive query engine for Lyft's largest DAGs, personally unblocking complex use cases regarding Spark syntax and rollouts.

Software Engineer I (Data Fabric & Data IDL)   *July 2021 – August 2022*
– Pioneered new on-the-fly (un)marshal library functionality to drive the migration from cJSON to Google Protobuf for 450+ services and 2400+ analytics events, saving ∼15% CPU fleet-wide.
– Optimized analytics event proxy sidecars by leveraging a native schema-retrieval API, reducing EC2 provisioning costs and memory footprint by up to ∼80% for all event-emitting services.

Microsoft   *Redmond, WA*
Software Engineering Intern   *May 2020 – August 2020*
– Scaled internal Microsoft Teams chatbot via 8 new deployment features and automated Azure Storage FAQs, boosting utilization and cutting on-call TTI/TTR by 4-6 hours per request.

Lyft   *San Francisco, CA*
Software Engineering Intern   *January 2020 – May 2020*
– Engineered heatmaps using GeoPandas, WKT geometries, and Geohash weights to visualize aggregate regional quality metrics.
– Developed 10+ Mode dashboards enabling validation of metric heuristic iterations and OpenStreetMap (OSM) map changes.

Amazon.com   *Seattle, WA*
Software Development Engineering Intern   *May 2019 – August 2019*
– Developed autocomplete and bookmark migration for AWS AEA Android app, improving CX for 5,500+ users accessing corporate mobile services.
– Automated manual dependencies and dynamic service retrieval via AWS (Lambda, DynamoDB, API Gateway, SNS, S3), reducing onboarding from 1 month to sub-hour.

Manhattan Associates   *Atlanta, GA*
Software Engineering R&D Co-Op   *January 2019 – May 2019*
Raytheon   *Indianapolis, IN*
Software Engineering Intern   *May 2018 – August 2018*