

# Robert Hsu

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## EDUCATION

### Georgia Institute of Technology

Masters in Computer Science, Machine Learning - GPA: 4.0

Aug 2023 – Present

Atlanta, GA

### University of Illinois at Urbana-Champaign

Bachelors in Computer Science

Aug 2016 – Aug 2019

Champaign, IL

### Depaul University

Bachelors in Computer Science

Sep 2014 – Jun 2016

Chicago, IL

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## WORK EXPERIENCE

### State Farm

Lead Data Engineer

Feb 2020 – Present

Bloomington, IL

- Developed and maintained business event framework Spring Boot applications in prod. Used technologies such as RabbitMQ and Kafka to deliver events to datalakes in AWS for business analytical purposes.
- Migrated CI/CD pipelines to Gitlab with experienced knowledge of container scans, dependency version resolution, static code scans, unit testing, integration testing, and producing evidence of tests. Responsible for migrating cloud terraform infrastructure to Scalr.
- Piloted cloud architectural redesign for our on-premise application to AWS with enhancements following business requirements. Spearheaded strategic redesign from Lambdas to AWS managed EKS, backed by key performance and cost optimization metrics. Lead the team through the whole software development process from test to production.
- Point-of-contact for a multiple business consumers and producers, working with upstream producers to test and produce valid business events while conforming to business requirements from downstream consumers that use the data ingested in an S3 Datalake for detailed analysis using services such as AWS Athena, Kinesis, EventBridge, and Glue.
- Collaborated with other Lead Engineers to work on NLP Generative-AI use case for parsing prompts into Athena SQL queries on internal business schemas using GPT-4o LLM Backend. Delivered MVP product and helped test for query accuracy and effectiveness.

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## SKILLS

- Python, Java, C, HTML/CSS/JS(Node, D3), SQL(Postgres, MySQL), Bash
- Technology: Git, Docker, Splunk, Dynatrace, Grafana, Prometheus, AWS, Azure, Terraform, Jenkins/Gitlab CI/CD, Datadog, RabbitMQ, Selenium, SoapUI, Tableau

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## CERTIFICATIONS

### AWS Solutions Architect Associate

Aug 2022

### Hashicorp Terraform Associate

Feb 2023