Bobby Hsu

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EDUCATION

Georgia Institute of Technology Aug 2023 – Present
Masters in Computer Science, Machine Learning - GPA: 4.0 Atlanta, GA

University of Illinois at Urbana-Champaign Aug 2016 – Aug 2019
Bachelors in Computer Science Champaign, IL

Depaul University Sep 2014 – Jun 2016
Bachelors in Computer Science Chicago, IL

WORK EXPERIENCE

State Farm Feb 2020 – Present
Lead Data Engineer 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.

SKILLS

- Languages: Python, Java, C, HTML/CSS/JS, SQL, PostgreSQL, Bash
- Technology: Git, Docker, Splunk, Dynatrace, Grafana, Prometheus, AWS, Azure, Terraform, Gitlab CI/CD, Datadog, RabbitMQ, Selenium, Tableau, PySpark, Kubernetes

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CERTIFICATIONS

AWS Solutions Architect Associate Aug 2022

Hashicorp Terraform Associate Feb 2023