

Michael Xie

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EDUCATION

University of Wisconsin

Statistics, Computer Science

Madison, WI

Aug. 2014 – May 2018

TECHNICAL SKILLS

Languages: Python, Java, R, SQL

Frameworks, Libraries and Platforms: Pyspark, Pandas, Spring Boot, RESTful API, Maven, PyTest, JUnit, Snowflake, Databricks, Azure, Kafka, Docker, Linux, Control-M

AWS: Lambda, Step Functions, EC2, S3, SNS, SQS, DynamoDB, RDS, DMS

Databases: PostgreSQL, OracleDB

EXPERIENCE

Software Engineer (IAM)

Mar 2025 – Present

Northern Trust

Chicago, IL

- Developed and maintained Python-based ETL pipelines for enterprise identity systems using Linux and Control-M
- Automated and migrated legacy IAM data into modern platforms using secure OracleDB and PostgreSQL connections
- Provisioned on-prem infrastructure to support scheduled ETL workflows

Software Engineer

Aug 2019 – Nov 2023

Capital One

Chicago, IL

- Built scalable AWS Big Data ETL pipelines (Step Functions, EMR, DynamoDB, Lambda) using Python and PySpark to process sensitive customer credit and behavioral data for analytics and decisioning
- Created automated UI testing suite using Selenium and OpenCV for communication strategies deployed to delinquent customer segments
- Engineered a fraud analytics reporting system leveraging SQL, Snowflake, R, and Python, with dynamic dashboards enabling stakeholders to monitor the impact of evolving fraud logic
- Developed and maintained customer communication microservices using Java Spring Boot, containerized in Docker and deployed on ECS with CI/CD pipelines
- Standardized infrastructure pipelines for microservices, integrating Docker and AWS CI/CD tooling to streamline deployments

Operations Lead

Jun 2018 – Aug 2019

Northwestern Mutual

Milwaukee, WI

- Managed deployment of internal enterprise apps on iOS/Android using Microsoft Intune and Azure AD policies
- Resolved authentication and MDM compliance issues across employee devices and collaborated with internal support and security teams
- Coordinated between offshore development teams and on-site stakeholders; delivered weekly operations reports

PROJECTS

FourKube | fourkube.info/

- Co-founded financial forecasting platform using NLP techniques on financial news headlines and articles
- Implemented proprietary natural language processing logic deployed on AWS Lambda with S3 for storage and cost efficiency
- Scaled to 80+ paid users through direct marketing, cold outreach, and iterative product development

CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Certified Solutions Architect – Associate