

ZHAOHAN GAO

Amsterdam, Netherlands

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Education

VU Amsterdam & University of Amsterdam

Master of Science in Computer Science

09/2024 – 08/2026(expected)

Amsterdam, Netherlands

Northeast Normal University

Bachelor of Engineering in Software Engineering

09/2019 – 06/2023

Changchun, China

Experience

NIO

Data Engineer Intern

12/2024 – 05/2025

Amsterdam, Netherlands

- Write PySpark scripts and SQL to develop ETL pipeline.
- Develop and maintain the BI dashboard.
- Establish API connection between the data warehouse and multiple platforms.
- Optimize the data pipeline by cutting down 70% of API calls. Improved the performance of the pipeline significantly.

Jack Technology

Software Engineer

07/2023 – 07/2024

Taizhou, China

- Developed and maintained full-stack applications using Spring Boot for the back end and Vue.js for the front end.
- Designed and implemented CI/CD pipelines using Jenkins. Used Docker to deploy and manage the apps.
- Took part in refactoring an app. Participated in designing the app's backend architecture.
- Upgraded the app's middleware. Used Redis to optimize the API performance, reducing response times by 40%.
- Upgraded the front-end tech stack of the app from JSP to Vue.js and implemented a new UI.
- Developed the ETL pipelines. Wrote scripts to automate the pipeline. Create reports using BI tools

Projects

Azure End-To-End Data Engineering Project

02/2025

- Create Azure Data Factory, create dynamic data pipeline to pull data from Github API to Azure Data Lake.
- Establish Azure Databricks cluster. Use Databricks notebook to write PySpark scripts for data transformation.
- Use Azure Synapse Analytics to do big data analysis. Integrate Data Warehouse with PowerBI.

Food Delivery App DevSecOps Pipeline

08/2024

- Developed a full-stack food delivery application using MongoDB, Express.js, React.js, and Node.js.
- Ensured the application's security and quality through Trivy and SonarQube.
- Deployed Prometheus and Grafana on AWS EC2 instances to monitor the status of the Jenkins server.
- Created Kubernetes cluster by using AWS EKS. The application was deployed on the Kubernetes clusters to ensure the robustness of the project.
- Automated the whole CI/CD pipeline using Jenkins.
- Deployed Prometheus and Grafana on AWS EC2 instances to establish the dashboard to monitor the status of the Jenkins server and the Kubernetes cluster.

Chat App

07/2024

- Developed a real-time chat application using the MERN stack (MongoDB, Express.js, React, Node.js).
- Developed real-time online user status features using Socket.io and React Context, providing dynamic updates.

Technical Skills

Languages: Python, Java, JavaScript, SQL

Developer Tools: VS Code, IntelliJ IDEA, AWS, Azure

Technologies/Frameworks: Linux, Jenkins, Git, Spring boot, Spring cloud, React.js, Vue.js, Spark