

# Zhaohan Gao

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## Education

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University of Amsterdam, M.Sc in Computer Science	Sept 2024 – Jun 2026
Vrije University of Amsterdam, M.Sc in Computer Science	Sept 2024 – Jun 2026
Northeast Normal University, B.Eng in Software Engineering	Sept 2019 – Jun 2023

## Experience

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Data Engineer Intern, NIO, Amsterdam, Netherlands	Nov 2024 – Current
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Software Engineer, Jack Technology, Zhejiang, China	July 2023 – July 2024
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- Developed the ETL processes for data integration and cleansing. Create reports to collect data from 6 apps.
- Used Fanruan BI tool to create reports and created graphs for data visualization.
- Utilized Pentaho Data Integration(PDI) to manage data flows and configure scheduled tasks for automated data integration.
- Was responsible for front-end and back-end software development. Built and maintained the CI/CD pipeline.
- Tech Used: Data Warehousing, ETL, MySQL, Oracle, SQL Server, MongoDB, Jenkins, Docker, SpringBoot, Vue.js,

IT Intern, Covestro – Shanghai, China	Apr 2023 – Jun 2023
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- Developed 2 low-code applications for the company.
- Visualized cost savings generated by the Suggestion System application using Microsoft Power BI.
- Collaborate with colleagues to deliver and operate the application.
- Tech Used: Microsoft Power BI, PowerApps, HTML, CSS

## Projects

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### Food Delivery App DevSecOps Project

- Developed a full-stack food delivery application using Node.js, React.js, and MongoDB.
- Enabled customers to browse and order food directly through a user-friendly web interface.
- Ensured application security and quality through Trivy and SonarQube.
- Built Docker images of the app and pushed them to Docker Hub for deployment. Automated the CI/CD pipeline using Jenkins.
- Deployed Prometheus and Grafana on AWS EC2 instances to monitor the status of the Jenkins server.
- Created Kubernetes cluster by using AWS EKS. Deployed the application on the Kubernetes clusters.
- Tools Used: Git, Node.js, React.js, AWS, Jenkins, Trivy, SonarQube, Kubernetes

## Technologies

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**Languages:** Python, Java, SQL, JavaScript

**Technologies:** MySQL, PostgreSQL, Microsoft SQL Server, Oracle DB, MongoDB, PDI, Django, SpringBoot, Vue.js