HAO XU

Data Scientist/Engineer | IT Professional | Supply Chain Analytics

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Location: Gothenburg, Sweden

Languages: Chinese (Native), English (Fluent)

Age: 27 years old

PROFESSIONAL SUMMARY

Data Scientist/Engineer with 4+ years of experience in analytics, business intelligence, and IT solutions. Skilled in transforming complex data into actionable insights across industries including supply chain, logistics, and port operations. Expertise in statistical analysis, data pipelines, modeling, machine learning, and visualization. Combining technical proficiency with business acumen, I design scalable solutions that enhance decision-making and deliver measurable impact.

TECHNICAL SKILLS

Data Analytics & Data Science Python (95%), SQL (95%), A/B Testing (80%), Machine Learning (60%), Semantic Mode

Data Engineering & Development AWS Cloud (86%), Git Version Control (90%), Data Pipeline (85%), Database Design (8

Visualization & BI Power BI (M & DAX) (95%), Tableau (80%), Google Looker Studio (70%), Excel/Google

PROFESSIONAL EXPERIENCE

Data Scientist

Stena Line

August 2022 - July 2025

Primarily focus on end-to-end business data analysis — from data extraction and processing to visualization and reporting — to optimize operational processes and enhance decision-making.

- • Improved estimated ready-for-pickup times for freight using historical data analysis
- • Developed Power BI dashboards to visualize, monitor and track operations at Ports and Terminals, which have been in continuous use for over two years
- • Applied Causal Impact Analysis to evaluate and confirm the benefits of a pricing model

Research Assistant (Data Analyst)

Chalmers University of Technology

April 2021 - June 2022

Primarily focused on analyzing changes in delivery patterns and customer behavior during COVID-19, providing actionable insights for logistics and retail. Worked on end-to-end research projects — from data collection and modeling to visualization and reporting.

- • Investigated changes in delivery patterns and customer behavior during COVID-19
- • Conducted data collection, modeling, analysis, and visualization (in Python and Tableau)
- • Confirmed post-pandemic shifts in spending and online shopping trends

Supply Chain Planner (Intern)

Midea Property Group

June 2019 - November 2019

Supported a supply chain management internship project focused on demand forecasting, inventory optimization, logistics coordination, and procurement analysis to enhance overall planning efficiency and strategic decision-making.

- • Conducted demand forecasting and inventory analysis to support supply chain planning, improving forecast accuracy and reducing stock imbalances across multiple business units
- • Performed market analysis on procurement categories, identifying and evaluating potential suppliers to optimize cost, quality, and lead time, supporting strategic sourcing decisions

EDUCATION

Master of Science in Supply Chain Management

Chalmers University of Technology

September 2020 - August 2022 | Gothenburg, Sweden

Erasmus Exchange - Operations Management and Logistics

Eindhoven University of Technology

September 2021 - February 2022 | Eindhoven, Netherlands

Bachelor of Engineering in Industrial Engineering

South China University of Technology

September 2016 - July 2020 | Guangzhou, China

KEY PROJECTS

Track & Trace Dashboard

Stena Line, Sweden | March 2023 - October 2023

Independently designed and developed a Power BI dashboard to monitor port operations and efficiency at multiple granularities. Led the full development cycle, including data extraction via SQL, data cleaning with Python/Power Query, and data modeling/visualization in Power BI. The dashboard has been actively used for over 1.5 years, delivering significant value by enhancing operational visibility and decision-making.

- Technologies: Python, Power BI, SQL, Data & Semantic Modeling, Data Pipeline, Data Visualization, Data Analysis

Master Thesis – Supply Chain & Logistics

Chalmers University, Sweden | January 2022 - August 2022

Assessing the Economic and Environmental Effects of Dry Port and Triangulation Transport on the Empty Container Repositioning Problem

- • Built three Agent-based Discrete-event Simulation Models using AnyLogic with real operational data
- • Results showed dry ports reduced transport costs by 66.36% and emissions by 78.86%; triangulation further decreased costs by 25.12% and emissions by 7.85%
- Technologies: Python, Java, Logistics Network Modeling, Agent-based Discrete-event Simulation (AnyLogic), Academic Research & Writing

Full-Stack Serverless Photography Portfolio Website

Personal Project | July 2025 - August 2025 | www.haoexplore.com

Independently built an AWS-cloud-powered photography website from scratch, combining personal passion with full-stack development practice. Frontend: Designed and deployed a fully responsive website using HTML5, CSS3, and JavaScript. Backend: Built a serverless architecture on AWS including API Gateway, AWS Lambda (Python), S3, DynamoDB, and SES.

- Technologies: Full-Stack Web Development, AWS Cloud (API Gateway, Lambda, S3, DynamoDB, SES), UI/UX Design, Serverless Architecture, Python

INTERESTS & HOBBIES

Traveling, Photography (www.haoexplore.com), Hiking & Nature, Reading & Learning. Passionate about exploring diverse cultures, capturing moments through photography, connecting with nature, and continuous learning and personal growth.