



Mohamed Mohamed

Data & Systems Engineer | Python • Data Analytics • Machine Learning

Data-driven engineer skilled in Python, data analysis, and automation. Passionate about using data insights and machine learning to optimize performance, improve operations, and enable smarter decisions.

✉ studentmohamed1881@gmail.com

📍 South Saint Paul, MN, USA

🌐 github.com/SirWalterLibrary

☎ 612-876-1051

🌐 linkedin.com/in/mohamed-mohamed-6124b7177

WORK EXPERIENCE

Systems Application Engineer I SICK Inc.

06/2022 - Present

Bloomington, MN

Achievements/Tasks

- Developed 100+ Python automation scripts for **data extraction, cleaning, and visualization**, enabling faster insights into system performance and error trends
- Aided installation on Track and Trace systems for more than 40 tilt tray sorters, resulting in **revenue recovery at FedEx and UPS sites**
- Analyzed and optimized sensor data from 15+ Track and Trace systems using Python to identify **signal anomalies and improve barcode accuracy**

Design Engineering Co-op Emerson Automation Solutions

01/2021 - 09/2021

Shakopee, MN

Achievements/Tasks

- Collaborated building a pipe fixture to **test the performance** of Emerson's X-well temperature sensor at temperatures beyond 300°C
- Implemented a test station to analyze the relationship between stem conduction and **sensor accuracy in temperature measurement**
- Implemented a **data acquisition system** using LabVIEW for connecting temperature sensors to Emerson's 848TX transmitter

EDUCATION

Mechanical Engineering University of Minnesota — Twin Cities

09/2018 - 05/2022

Minneapolis, MN

Courses

- C++, Statistics, Intro to Machine Learning, Systems & Modeling, Control systems

SKILLS

Programming: Python (pandas, NumPy, matplotlib, scikit-learn), SQL, Bash

Machine Learning: Regression, Classification, Feature Engineering, Model Evaluation

Other: Linux/SSH, Git/GitHub, Networking, Automation scripting, Excel

PERSONAL PROJECTS

Home Lab (10/2025 - Present)

- Build a home lab with a running Ubuntu server and NAS system for VPN, home streaming, and website/app hosting
- Created a custom OPNSense router from an old OptiPlex 760 that can manage firewalls, monitors traffic, and filters ads/threats

Teaching (09/2024 - Present)

- Teaching religious studies to students ages 7-13 in storytelling, jurisprudence, and manners

Tutor (01/2019 - 05/2022)

- Assisting children K-8 to further enhance studies in the mathematics, social sciences, and language arts

Open Arms (08/2023 - 01/1970)

- Volunteering to put a delicious, medically tailored meal on the table for someone in MN community living with a life-threatening illnesses

LANGUAGES

English
Native or Bilingual Proficiency

Somali
Professional Working Proficiency

INTERESTS

Machine Learning

Data Science

Sensor Devices

Engineering Modeling

Home Lab