

Judy Effendi

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Work Experience

Target Corp.

Minneapolis, MN

Software Engineer

September 2023-present

- Developed a Kotlin based module for Kafka to achieve seamless data mirroring from production to stage, ensuring adherence to Avro schema standards, improving payment settlement teams' efficiency by 30% to test payment data in dev.
- Implemented robust redaction mechanisms to safeguard sensitive data from being propagated to output topics in a scrum agile environment.
- Performed unit testing of endpoints to validate functionality and security measures for authorization mechanisms and maintained and optimized PostgreSQL DB for efficient data storage and retrieval.

Bosch

East Lansing, MI

Software Engineer, Capstone Experience

January 2023- April 2023

- Developed a Web Interface for HIL (hardware-in-the-loop) Benches to centralize remote access for various teams across Bosch utilizing a Flask API for an instance of a HIL that sends HTTP request to allow control over the CarMaker simulation.
- Created and used python automation test-suites to test vehicle control modules and collect the necessary logs to enable development teams to fix defects and prevent safety issues in production.
- Developed mobile app for web interface using Android Studio.

Target Corp.

Remote

Software Engineer Intern

June 2022-August 2022

- Leveraged the power of Spark/Scala to develop a cutting-edge automated data comparator tool for the Data Engineering Stores Planning team, streamlining data analysis and validation processes.
- Implemented an end-to-end real-life enterprise product utilized by Target-Tech to analyze and deploy local data visualized through Grafana.

College of Engineering, MSU

East Lansing, MI

CSE Outreach Administrator

August 2020-April 2023

- Exemplified **leadership** as one of many **lead admins** of our esteemed local and international computer science outreach programs.
- Successfully introduced the dynamic fields of Python programming and Web Development to a diverse range of students from 6th-12th grade, with an emphasis on empowering underrepresented demographics.

Computer Science Department, College of Engineering, MSU

East Lansing, MI

Undergraduate CSE ULA

January 2022-April 2023

- Actively guided a class of 30 students in debugging, problem-solving exercises, labs, and projects.
- Effectively communicated complex technical concepts in a clear and concise manner, catering to diverse learning styles and enabling students to grasp programming principles efficiently.

College of Engineering, MSU

East Lansing, MI

Ambassador, Women in Engineering

January 2020-April 2023

- Led and administered K-12 outreach activities like 'Girls' Stem Day' and 'Introduce a Girl to Engineering' to recruit and encourage girls to pursue careers within the engineering field.
- Encouraged opportunities for academic, personal, and professional growth by organizing, leading, and planning a 6-week Leadership Series for 30+ undergraduate Women in Engineering alongside peer ambassadors.

Education

Michigan State University

August 2019-April 2023

B.S., Computer Science and Engineering, Minor: Spanish (GPA 3.78)

Skills

Technical: Python, ReactJs, HTML, C++, C, MATLAB Simulink, SQL, Spark/Scala, Kotlin, Java, Sveltekit, Kafka, Node, REST API. Postgres, Android Studio

Devops: Git, Jira, Docker, Google Cloud, Grafana, JUnit, Vela, AWS, Azure

Languages: Fluency in Arabic and English| Proficiency in French and Spanish