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 stage.
- Implemented robust redaction mechanisms to safeguard sensitive data from being propagated to output topics.
- 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.
- Increased Bosch's productivity for their Engineers by over 50% by allowing an easier and straight-forward approach to access CarMaker Simulations for autonomous vehicle testing.

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 **visionary leadership** as the **lead admin** of four esteemed local and international computer science outreach programs.
- Spearheaded curriculum development, session planning, content instruction, parent communication, and program evaluation.
- Successfully introduced the dynamic fields of Python programming and Web Development to a diverse range of students from 6th-12th grade, with a 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 2022-April 2023*

- Led and administrated 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.

Education

Michigan State University   August 2019-April 2023

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

- Awards: Grace Hopper Scholar

Skills

Technical: Python, JavaScript, HTML, C++, SQL, Spark/Scala, Kotlin, Sveltekit, Tailwind, Node, REST API
Devops: Git, Jira, Docker, Google Cloud, Grafana, JUnit, Vela
Languages: Fluency in Arabic and English| Proficiency in French and Spanish