

# Sulaiman Dem-Zerigat

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## RELEVANT EXPERIENCE

Machine Operator | Randstad @ NXP | Austin, TX

February 2025 - Present

- Handle semiconductor wafers in a high-precision manufacturing environment, ensuring proper processing and transportation.
- Monitor system performance in real-time, identifying and reporting tool malfunctions to engineers and maintenance teams to minimize downtime.
- Analyze workflow and propose process improvements, such as enhanced wafer transport mapping, to reduce human error and improve efficiency.
- Maintain strict adherence to cleanroom protocols and safety standards to ensure optimal wafer quality.
- Certified in Wafer Etching, Wafer Photo, and Wafer Transportation, demonstrating expertise in critical semiconductor manufacturing processes.

Home Health Aide | NY

July 2023 - January 2025

- Assisted clients with daily living activities, including personal care and meal preparation.
- Monitored vital signs, and medication schedules, and reported health concerns.
- Provided companionship and emotional support to improve client well-being.
- Maintained accurate records and communicated with healthcare teams.
- Ensured a clean, safe environment by following hygiene and safety protocols.

Fellow | CUNY Tech Prep | NY

July 2023 - May 2024

- Developed in-demand technical skills in Python 3, Jupyter Notebooks, Pandas, NumPy, Scikit-learn, and SQL.
- Gained practical experience in exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modelling, data visualization, machine learning techniques, data science processes, and big data.

## CERTIFICATES

- CUNY Tech Prep Data Science Certificate

June 2024

## PROJECTS

### Deepfake Hunter

September 2023 - January 2024

- Collaborated with a team of 2 to develop a TensorFlow model to authenticate over 200,000 audio files.
- Leveraged the Librosa library for feature extraction and created a Python data pipeline automation to detect fake audio.
- Streamlined model development using Visual Studio Code and accelerated training with Google Colab Pro's GPUs.
- Deployed a user-centric interface on Streamlit Community Cloud, enabling users to upload audio for real-time testing.

## SKILLS

**Programming Languages:** Python, Markdown, HTML, SQL

**Frameworks:** Tensorflow, Streamlit

**Technologies:** Visual Studio Code, Google Colab, Git/GitHub, HuggingFace, Microsoft Word, Microsoft Excel, Google Sheet, Google Slides, Jupyter Notebook

## EDUCATION

York College, The City University of New York (CUNY) | Jamaica, NY  
Bachelor of Science in Computer Science

December 2023