

# AHMED AHRES

## Machine Learning Engineer

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## EXPERIENCE

### Machine Learning Engineer - Founding Member

#### Heron Data

📅 Aug 2021 – Present

📍 London, United Kingdom

- Founding Engineer & Employee #2. Leading the data science & machine learning side of the product.
- Trained & deployed an NLP solution using named entity recognition solution to detect merchant names in transactions. Improved coverage from 50% to 80% & accuracy from 97% to 99.5%.
- Trained & deployed a classification model to categorize bank data and re-create a company's financial health with an accuracy of 95%. Model used in production by 100+ customers everyday.
- Responsible for conducting high-value trials to close sales contracts. \$250K+ worth of annual contract value closed so far.
- Heavily involved in customer interaction and product management to help the company find product-market fit.

### Machine Learning Engineer

#### Revolut

📅 Aug 2019 – Mar 2021

📍 London, United Kingdom

- One of the first ML Engineers of the company.
- Created and deployed the selfie authentication feature in production. The service is used as an authentication factor by customers to access their account from a new device using face verification. The feature is used 1500+ times daily.
- Trained, validated and deployed a selfie-document face matching model to on-board Revolut customers. System currently in production to on-board 1000+ new users daily.
- Trained an ML-based passport detector that runs on the Revolut app to improve customer experience. Reduced number of images without passport by 35%.
- Built and deployed a real-time glare detector that runs on the Revolut app. Reduced glare images received by customers by 70%.
- Heavily involved in the hiring process (interviewing & CV screening) to help the team expand.

## EDUCATION

### Computer Science Master's

#### Swiss Federal Institute of Technology Lausanne (EPFL)

📅 2018 – 2019

📍 Lausanne, Switzerland

Computer Science master's with a focus on Computer Vision & Image Processing. Dropped out to continue working at Revolut.

### Computer Science Bachelor's

#### Eindhoven University of Technology

📅 2015 – 2018

📍 Eindhoven, Netherlands

Successfully completed a bachelor's degree in Computer Science and Engineering. Top 10%.

## NOTABLE PROJECTS

### Cyclone - Autonomous Racing Drone

- Leader of 12-member team, building an autonomous racing drone.
- Leadership role focused on leading weekly meetings and setting up goals for the team.
- Developed the computer vision & object detection system of the drone.
- Award for best and most innovative project in 2018.

### Shapion - Android Game

- Designed and published a 2D game where the player moves around, shrinks and grows to avoid obstacles and collect coins with a bird. Downloaded 1000+ times worldwide.

### Resurrection of Cthulhu - Hackathon

- Developed and published a 2D puzzle game in a team where the player must solve a mystery by collecting different items. Game developed at Junction 2016 hackathon.

## HONORS & AWARDS

### Invited Speaker - Stanford University

- Award for best data visualization project at EPFL.
- Invited to California to present the project in the Natural Capital Project symposium at Stanford University in March 2019.
- Project presented nature's contributions to worldwide population using data visualization techniques.

### Honors Program - High Tech Systems

- Participated in a highly selective 2-year program for the top 5% students of the university in Eindhoven.
- Team leader & computer vision engineer in the *Cyclone Project* (described above).

### Professional Tennis - National Champion

- Finished 1st in the Tunisian Tennis ranking in 2008 and 2010. Finished 8th in the African Tennis Championship in 2010.

## SKILLS

### Programming Languages

- Advanced: Python, C++, SQL
- Intermediate: Java, JavaScript

### Industry Software Skills

- OpenCV, TensorFlow, Keras, PyTorch, Pandas, Spark, Docker, Unity, Tailwind, Node.js

### Spoken Languages

- Advanced: English, French & Arabic
- Intermediate: Spanish