



# NADER SOMRANI

Machine Learning engineer, Co-Founder and CTO at Unfrauded. Passionate by artificial intelligence and the ways we can leverage it to improve our lives.

## EXPERIENCE

### Unfrauded: Co-Founder - CTO

UNFRAUDED | JUIN 2019 - PRESENT

- Image segmentation | [Demo](#):
  - Instance segmentation for car parts and damage detection
  - 40.657 AP for parts detection and 6.477 AP for damage detection
  - *Technologies*: Detectron2, Pytorch, Python, MaskRCNN
- OCR for structured data extraction | [Demo](#):
  - Object detection of invoice structure with 74.6 AP
  - AWS Textract API for text extraction
  - *Technologies*: Detectron2, Python, AWS Textract, FastRCNN
- Django APIs:
  - Django services that offer Rest APIs accessible through an API Gateway
  - *Technologies*: Django, DRF, PostgreSQL, Python
- Deployment:
  - Torchserve / TF-Serving for Pytorch / Tensorflow models deployment
  - Dockerizing of Django services
  - AWS ECS for container orchestration
  - *Technologies*: Torchserve, TF-Serving, Docker, AWS ECS, AWS S3, AWS RDS, AWS API Gateway
- Regression (Online machine learning):
  - Linear, Polynomial and NN regression models for car parts price estimation with real time learning, 10% average error
  - *Technologies*: Python, Scikit-learn
- React Native App (Expo) | [Demo](#):
  - Insurance claim filing mobile app
  - Multiple screens: Image upload, Image editing, Sketch creation with drag & drop, Voice recording, Instant messaging, Notifications
  - Nodejs backend
  - *Technologies*: React Native, Expo, Nodejs
- Anomaly detection:
  - Unsupervised anomaly detection of banking transactions
  - Time series anomaly detection
  - React app frontend and a Django backend | [Demo](#)
  - *Technologies*: Python, Pytorch, AutoEncoders, LSTM, React, Django
- Web scraping:
  - *Technologies*: Python, Selenium, Scrapy

## MACHINE LEARNING ENGINEER

### Contact Info



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### Languages

English: Fluent  
French: Fluent  
Arabic: Native

## Mouhami.tn: Co-founder - Online directory of lawyers

MOUHAMI | FEV 2019 - JUIN 2019 | [DEMO](#)

- Angular frontend (Account creation, directory, online appointments, dashboard)
- Django Backend
- Deployment on NGINX web server with GUNICORN
- Technologies: [Angular 7](#), [Django](#), [REST API](#), [PostgreSQL](#), [NGINX](#)

## Internship: Android banking app

[BFI GROUP S.A](#) | FEV 2017 - MAI 2017

- Development of a banking Android app (Account information, money transfer, geolocation of agencies)
- Development of REST APIs in J2EE
- Technologies: [Android](#), [JAVA](#), [J2EE](#), [MySQL](#), [REST API](#)

## EDUCATION

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### COMPUTER SCIENCE ENGINEERING DEGREE

[INSTITUT SUPÉRIEUR D'INFORMATIQUE - TUNIS EL MANAR](#), 2017 - 2020

- Valedictorian

### COMPUTER SCIENCE BACHELOR DEGREE

[INSTITUT SUPÉRIEUR D'INFORMATIQUE - TUNIS EL MANAR](#), 2014 - 2017

- Valedictorian

## SKILLS AND TECHNOLOGIES

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**Programming Languages:** Python, Javascript, Go, Java, C/C++

**Machine Learning:** Pytorch, Tensorflow, Keras, Fastai, Detectron2, Scikit-learn, Prophet, Torchserve, TF-Serving, AWS Sagemaker

**Cloud/DevOps:** Docker, Kubernetes, GIT, AWS ECS, AWS S3, AWS EC2, AWS ECR, AWS API Gateway

**Frontend:** Angular, React, HTML/CSS

**Backend:** Django, NodeJS

**Mobile:** React Native, Android Native, Ionic, Flutter

**Desktop:** JavaFX, Java Swing, ElectronJS

**Database:** PostgreSQL, MongoDB, MySQL, SQLITE

## CERTIFICATIONS

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- [Deep Learning Specialization on Coursera](#)
- [DeepLearning.ai Tensorflow Developer Specialization on Coursera](#)
- [Introduction to Machine Learning in Production on Coursera](#)

## ACHIEVEMENTS

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- Co-Founded [Unfrauded](#) an insurtech startup valued at \$1M
- Semi final at [BloomMMasters 2019](#) (Mouhami)
- First prize at the [Open Innovation Challenge of Tunisia Digital Summit 2019](#)