

# Estelle Ocran

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## EDUCATION

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**New York University**, Abu Dhabi, UAE

Expected Graduation: May 2021

Major: B.S Computer Science / Minor: Interactive Media

## TECHNICAL SKILLS

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**Programming Languages / Tools:** Python, Java, HTML/CSS/Bootstrap, Git, Numpy, Pandas, MongoDB, Flask, Tensorflow, Keras, MySQL, Javascript, C/C++, XML, Vue.js, React, Digital Ocean, Nodejs, Reactjs, Expressjs.

**Relevant Coursework:** Algorithms, Android Development, Computer Systems Organization, Computer Networks, Database Systems, Data Science, Data Structures, Discrete Mathematics, Large Scale Web Applications, Operating Systems.

## PROFESSIONAL EXPERIENCE

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*Software Engineer Intern* | **Oracle Inc**, Atlanta, GA

May 2020 – August 2020

- Designed and implemented three software programs to simulate different IoT environments on a Raspberry Pi to efficiently collect data from sensors and send over to a cloud service.
- Built a tool to automate multiple integrations between different IoT Cloud services which reduced integration time by about 90%.
- Designed and developed a customizable GUI that offers multiple features and allows users to select and run different devices for different IoT environments.

**Technology:** Python, Raspberry Pi, REST APIs, Tkinter, IoT Cloud Service, PyInstaller.

*Backend Engineer* | **Mozilla Spring MVP Lab**, Atlanta, GA

April 2020 – June 2020

- Created a Whatsapp chatbot with a backend integrated with a MongoDB database, that allows buyers to search for products in their neighbourhood, place orders, pay for products and view items in their cart.
- Unit tested and implemented user stories in a SCRUM environment and worked to sync with the seller bot developers to keep consistency in design.

**Technology:** MongoDB, Flask (Python), Whatsapp Business API, Twilio, Digital Ocean, React, Google Maps API.

*Web Developer Intern* | **NYU Online Services & Applications (OSA)**, Abu Dhabi, UAE

May 2019 – May 2020

- Designed and developed the user interface for the internal central portal to update information on all external websites.
- Developed and maintained new REST APIs for integration with the internal websites.

**Technology:** Sass, Gulp, HTML/CSS (Bootstrap), Javascript, Git, Nodejs, Reactjs, Express.

*Machine Learning Research Intern* | **NYU MoMA Lab**, Abu Dhabi, UAE

May 2019 – July 2019

- Improved security against backdoors in machine learning models by 60% through developing filters that identify and remove triggers from poisoned inputs.
- Developed and identified stealthy triggers which can successfully be injected into inputs for machine learning models.

**Technology:** Python, Keras/Tensorflow, Numpy, Matplotlib.

## PROJECTS

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**Haneen (won 2<sup>nd</sup> place at the NYUAD Hackathon for Social Good in the Arab World 2019)**

- Created a mobile solution which converts Arabizi/English to pure Arabic text using NLP Python NLTK, Rosetta API, Repustate API, and Java.

### JoystGame

- Developed a multiplayer shooting game controlled by joysticks using Processing and Arduino in C++.

### Flixster

- Developed an Android mobile application that allows users to browse movies pulled from the Movie Database API using Java (Android Studio) and XML.

### FitMinder

- Created an extension in Visual Studio Code that regularly reminds users to drink water and take a short break from their laptop.

## HONORS & AWARDS

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AnitaB.org GHC 2019 Scholar, CSAW'19 HackML Finalist, WiCyS 2020 Scholar, Mozilla Spring MVP Lab awardee, Code2040 Finalist.