HANEEN FATHY

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Website Github LinkedIn

I am a builder and thinker at the intersection of technology, ethics, and design. I have deep interests in machine learning and AI, in particular how to use them to make system more fair and accessible.

EDUCATION

New York University
B.S. Computer Science, Minor in Interactive Media, **Class of 2022**
Coursework in: Algorithms, Data Structures, Computer System Organization, Discrete Math, Machine Learning, Software Engineering

Salahaldin International School
Valedictorian, Class of 2018

PROJECTS

Political Speech Generation with CharRNN
Fake Image Generation with GANs
Neural Network from Scratch
AI Recipe Generator
Generative Art with PoseNet

WORK EXPERIENCE

Machine Learning Intern   **Remote**
New York University   October 2020 – Present

- Training HRT recognition models on historical English and Arabic texts, and defining a workable corpus for HTR.
- Data preparation, cleaning and verification, updating static website with project progress

Web Developer   **Remote**
startAD   May 2020 – July 2020

- Created a brand new landing page to showcase startAD alumni, carried out UX research, collected data and built a map based interactive page with reusable components on the hubspot CMS.

Front-End Development Intern   **Cairo, Egypt**
Wuzzuf   July 2019 – August 2019

- Joined the front-end development team at wuzzuf, a leading company specialized in developing online recruitment solutions for enterprises in the MENA region.
- Implemented additional features to the wuzzuf.net recruitment platform.

Digital Marketing Intern   **Cairo, Egypt**
Toshiba Elaraby   June 2019 – July 2019

- Worked on improving SEO functions and improving the UI of new IOT applications in addition to shadowing the Software Development, Digital Design, Digital Marketing, and Operations departments.

AWARDS

Participant, 2nd Place Winner   **Abu Dhabi, UAE**
NYUAD Hackathon for Social Good   April 2019

Participant, 4th Place Winner for EduTech Startup Rehla   **Remote**
YouthTech Competition, secured place in incubator program.   August 2020

TECHNICAL SKILLS   ## LANGUAGES

Development: C++, C, HTML, CSS, JavaScript, Python, React.js, Vue.js, Flutter

Machine Learning: TensorFlow, Pytorch, Sklearn, R.

Design: Adobe Photoshop, Adobe Illustrator, Adobe XD, Figma, Sketch

Arabic (Native)

English (Fluent)

Haneen Fathy
20 November 2020
Affectiva

To whom it may concern,

 I am a junior at New York University with a major in computer science and a minor in interactive media. I pride myself on being a very well rounded individual with an interdisciplinary background in the sciences and humanities. I have 2 years of professional experience as a developer and research assistant. I am currently a machine learning intern working alongside a professor in the digital humanities. Faced with the problem of having no previous experience with historical texts, I quickly adapted to the situation and hit the ground running at my internship by creating two data corpuses to train new HRT models. This required me to quickly familiarize myself with historical texts and ancient printing practices, consistently demonstrating my abilities as a fast learner. Furthermore, I co-founded an EduTech startup that won a competition securing a place in a highly seeked incubator program that I am currently preparing for which exhibits my entrepreneurial drive.

 I have experience carrying out machine learning projects on my own and in a class environment. I am proficient in pytorch and tensorflow and have built several models myself from scratch. In addition to my programming skills, I have carried out extensive research into optimizing different models. I enjoy combining my passions for machine learning and art as evident by my projects. I believe a career at Affectiva will value breadth of knowledge as much as I do. Coming from a liberal arts background, I have gained indispensable critical thinking skills that can only be bolstered further with a career in deep learning. It will allow me to combine my technical background with my research experience to assess and solve problems successfully. Even though the work can be extremely arduous, I value the high quality of work and attentiveness to detail greatly.

 My goal is to pursue a career where I can use my passion for machine learning to capture the most meaningful insights from data, and use it to create social impact. This is evident in Affectiva's mission to support ethical AI adoption that is human centered first. Affectiva's holistic approach towards AI aligns most closely with my own. For my bachelor thesis, I am researching how to develop frameworks that address and mitigate AI risks that are often overlooked by businesses. I plan to use that knowledge to become a valuable addition to the team at Affectiva.

Sincerely,
Haneen Fathy