

# SHEHRYAR HANIF

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## EDUCATION

### New York University

*B.S. in Computer Science, B.S. in Mathematics*

Abu Dhabi, UAE & New York, USA

Current CGPA: 4.00/4.00

Aug. 2019 – May 2023

Relevant Coursework: Algorithms, Data Structures, Applied Internet Technology, Natural Language Processing, Linear and Nonlinear Optimization, Linear Algebra, Probability and Statistics, Computer Systems Organization, Parallel Computing

## PROGRAMMING SKILLS

**Python** (Including **NLTK**, **Pandas**), **JavaScript**/**TypeScript** (Including **Express.js**), **React** (Including **Hooks**, **Redux**, **Routers**), **HTML**, **CSS** (Including **Bootstrap**), **C++**/**C** (Including **MPI**), **MongoDB**, **MySQL**, **Firebase**, **R**

## PROFESSIONAL EXPERIENCE

### Full-Stack Development Intern

Jun. 2021 – Present

*Frich* New York, USA (Virtual)

- Led web development efforts of interns working with social FinTech startup targeting Gen Z (currently valued at \$5 million)
- Devised, designed, and developed web application (frich-ambassadors.herokuapp.com) for student recruits to register, log users, and chart progress through college ambassador program (github.com/ShehryarHanif/frichAmbassadors)
- Built back-end **REST API** in **Express.js**, and served **MySQL** data to custom-built **React** application through **React Routers** with **Axios**
- Implemented **JWT** authentication, designed UX/UI interface, built user and admin dashboards, and maintain hosting on **Heroku** with **AWS (RDS)** for databasing

### Front-End Development Intern

Jul. 2021 – Aug. 2021

*GlobeWyze Inc.* Markham, Canada & Rawalpindi, Pakistan (Virtual)

- Developed SPA application in **React** for ghost kitchens' online ordering systems, providing a customizable interface for venture capital firm's 5+ restaurant clients
- Implemented **OAuth** authentication through **Gmail** and **Firebase**, and set up website navigation with **React Routers**

## RESEARCH EXPERIENCE

### Machine Learning Research Assistant

Apr. 2021 – Present

*New York University Abu Dhabi* Abu Dhabi, UAE (Virtual)

- Design text-to-code machine learning models while working with Assistant Professor Riyadh Baghdadi (Computer Science)
- Web-scrape and clean code snippets and explanations from stackoverflow.com, and build **Python** implementation of Google's **GPT-3** language model by using **Scikit-Learn** and **TensorFlow**
- Attend weekly sprints as part of research group's adaption of an **Agile Software Development**

### Data Science Research Assistant

Sep. 2020 – Aug. 2021

*New York University Abu Dhabi* Abu Dhabi, UAE

- Led coding and data analysis efforts for research team working with Assistant Professor Andy Harris (Political Science)
- Specialized in data processing frameworks for **Python** (particularly **pandas**, **numpy**, **re**, and **beautifulsoup4**) and **R** (particularly **dplyr**, **ggplot2**, and **shiny**)
- Fuzzy-matched and geo-mapped election polling stations in Malawi to identify voting irregularities and incidence of fraud
- Web-scraped and analyzed polling stations data to see turnout differences between gender-segregated and combined stations

## PROJECTS

**handleBARS Fitness Tracker** (github.com/ShehryarHanif/handleBars) | **HTML**, **CSS**, **JavaScript**, **MongoDB** Apr. 2021

- Developed front-end and back-end of web application (handlebars-fitness-tracker.herokuapp.com) with support for exercise-tracking and personalized exercises searches
- Implemented asynchronous **JavaScript** with **Fetch.js**, user authentication with **Passport.js**, web templating with **Handlebars**, and online hosting with **Heroku** and **MongoDB Atlas**

**Brick Blast Game** (github.com/ShehryarHanif/brickBlast) | **Python**, **Processing**

Oct. 2019 – Dec. 2019

- Programmed a desktop derivative of mobile game "Brick Blast Ball"
- Constructed original randomized algorithms to provide infinite gameplay through procedurally generated levels
- Built innovative cannonball collision mechanic based on the Physics model of light and mirrored reflections

## AWARDS AND HONORS

**3rd in Punjab, Best Across Four Cambridge A Levels** *Cambridge Assessment International Examinations* Nov. 2019

**Top 10 in Pakistan, National Mathematics Talent Contest** *Higher Education Commission* Dec. 2018