# SHEHRYAR HANIF

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## EDUCATION

**New York University**                                                                  Abu Dhabi, UAE & New York, USA
*B.S. in Computer Science, B.S. in Mathematics*        Current CGPA: 4.00/4.00        Aug. 2019 − May 2023
<u>Relevant Coursework:</u> 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 front-end interface through **React Routers** with **Axios**
- Implemented **JWT** authentication, built user and admin dashboards, and maintain hosting on **Heroku** with **AWS** (**RDS**) for databasing

**Machine Learning Research Assistant**                                                                    Apr. 2021 − Present
*New York University Abu Dhabi*                                                                                    Abu Dhabi, UAE
- 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**

**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**

**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, cleaned, and analyzed databases for Pakistani polling stations to see how turnout varies 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