SHEHRYAR HANIF

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EDUCATION

New York University

Abu Dhabi, UAE & New York, USA

Aug. 2019 - May 2023

Current CGPA: 4.00/4.00

<u>Relevant Coursework</u>: Applied Internet Technology, Natural Language Processing, Parallel Computing, Software Engineering, Algorithms, Data Structures, Linear and Nonlinear Optimization, Linear Algebra, Probability and Statistics

PROGRAMMING SKILLS

Skilled In: Python (Including NLTK, Pandas), JavaScript (Including Express.js, Node.js), React (Including Hooks, Redux, Routers), HTML, CSS (Including Bootstrap), MongoDB, MySQL\PostgreSQL

Familiar With: C++\C (Including MPI, OpenMP, CUDA), MATLAB, AWS, Heroku, Firebase, TypeScript, R

PROFESSIONAL EXPERIENCE

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

Full-Stack Development Intern

Jun. 2021 – Nov. 2021

Frich

New York City, USA (Virtual)

- $\bullet \ \ \text{Led web development efforts of interns working with social Fin Tech startup targeting Gen Z (currently valued at \$5 \text{ million}) \\$
- 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

Globe Wyze 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

Abu Dhabi, UAE

- New York University Abu Dhabi
- 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 OpenAI's **GPT-3** language model by using **PyTorch**, **Scikit-Learn** and **TensorFlow**

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)
- Cleaned up 10+ datasets and conducted quantitative analysis (e.g., linear regression models, convex hull construction) by using **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

Apr. 2021

- Developed front-end and back-end of web application (handlebars-fitness-tracker.herokuapp.com) by using **HTML**, **CSS**, **JavaScript**, and **MongoDB**, with features including 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

Oct. 2019 - Dec. 2019

- Programmed a desktop derivative of mobile game "Brick Blast Ball" in Python and Processing
- 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