

SHEHRYAR HANIF

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EDUCATION

New York University Abu Dhabi (NYUAD)

Abu Dhabi, UAE

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

Current CGPA: 4.00/4.00

Aug. 2019 – May 2023

Relevant Coursework: Algorithms, Data Structures, Special Topics: Applied Internet Technology, Computer Systems Organization, Linear and Nonlinear Optimization, Linear Algebra, Probability and Statistics, Multivariable Calculus

PROGRAMMING AND OTHER SKILLS

Python (Including **Pandas**, **NumPy**, **Beautiful Soup**), **JavaScript\TypeScript** (Including **Express.js**, **Node.js**), **React** (Including **Hooks**, **Redux**, **Routers**), **HTML**, **CSS** (Including **Bootstrap 4**), **C++\C**, **MongoDB**, **MySQL**, **Firebase**, **R**, **Unity**, **C#**

Spoken Languages: English, Urdu, Hindi, Punjabi

Miscellaneous: LaTeX, Microsoft Word, Microsoft Excel, Microsoft PowerPoint

PROFESSIONAL EXPERIENCE

Full-Stack Development Intern

Jun. 2021 – Present

Frich New York, USA (Virtual)

- Led web development efforts for interns working with social FinTech startup targeting Gen Z (currently valued at 5 million USD)
- Devised, designed, and developed web application (frich-ambassadors.herokuapp.com) for student recruits to register, log users, and chart progress through college ambassador program
- Built website database in **MySQL**, back-end **REST API** in **Express.js** and **Node.js**, and front-end UX/UI in **React**
- Implemented **JWT** authentication, built user interface and admin dashboard, and maintained hosting on **Heroku** with **AWS (RDS)** for databasing

Undergraduate Research Assistant

Sep. 2020 – Present

New York University Abu Dhabi

Abu Dhabi, UAE

- Led coding and data science 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 in order to identify voting irregularities and incidence of electoral fraud
- Web-scraped, cleaned, and analyzed databases for Pakistani polling stations to see how turnout varies between gender-segregated and combined stations

Academic Representative for Mathematics

May 2021 – Present

NYUAD Student Government

Abu Dhabi, UAE

- Liaised between Mathematics department and student body of 1,600 students, addressing needs and concerns with regards to course offerings and program structure
- Organized workshops and panel talks with academics and researchers from NYUAD and other universities
- Streamlined communication pipeline and built robust feedback loop through regular surveys and student meetings

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 through **React Routers**
- Attended weekly sprints as part of **Agile Software Development** environment, and regularly presented to stakeholders on website interface

Library and IT Committee Member

Jan. 2021 – May 2021

NYUAD Student Government

Abu Dhabi, UAE

- Liaised between Library Staff, IT Support Team, and student body of 1,600 students, addressing needs and concerns with regards to technical support during the pandemic
- Revised WiFi support forms, set up posters for technological guidance, and implemented measures to increase library usage in a socially distant manner
- Coordinated planned overhaul of Student Portal (center-point of all college communications and administrative documents)

Software Engineer

Sep. 2020 – Feb. 2021

The Gazelle (Student Newspaper)

Abu Dhabi, UAE

- Maintained the full stack for the website (thegazelle.org) for UAE's biggest college newspaper
- Updated front-end interface with **React** and **TypeScript**
- Revised website's documentation for server set-up and usage with the purpose of easing team transitions in future years

Diversity Committee Member

Sep. 2020 – Dec. 2020

NYUAD Student Government

Abu Dhabi, UAE

- Liaised between Student Interest Groups based around identity and culture, helping coordinate event logistics and collaborative opportunities
- Organized campus conversations to discuss student body concerns, such as the spectrum of socioeconomic backgrounds

Copy Chief (Former Deputy Copy Chief)

Sep. 2019 – Dec. 2020

The Gazelle

Abu Dhabi, UAE

- Oversaw the final editorial process of weekly student publication
- Taught American Grammar Style Guide (based on The New York Times Manual of Style and Usage) to help journalists and members of the editorial team
- Team size grew from 3 to 8 during my tenure

PROJECTS

Frich Ambassadors (github.com/ShehryarHanif/frichAmbassadors) | JavaScript, React, MySQL Jun. 2021 - Present

- Devised, designed and developed web application (frich-ambassadors.herokuapp.com) for startup's student recruits to register, log users, and chart progress through college ambassador program
- Built back-end **REST API** in **Express.js** and **Node.js**, and served relational data to front-end interface through **React Routers** and **Axios**
- Implemented **JWT** authentication, built user interface and admin dashboard, and maintained hosting on **Heroku** with **AWS (RDS)** for databasing

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**

Alienation Game (github.com/ShehryarHanif/alienation) | Unity, C#

Jan. 2021

- Designed atmosphere and wrote story for point-and-click adventure for weekend-long game development contest "NYU Global Game Jam 2021"
- Implemented story progression mechanism, collision detection, automated movement, and responsive environmental assets through **C#** scripts

Personal Portfolio Website (github.com/ShehryarHanif/ShehryarHanif.github.io) | HTML, CSS Jan. 2021 – Present

- Developed an updatable portfolio website to showcase my personal profile
- Utilized **Bootstrap**, **Font Awesome**, and other dynamic toolkits

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

Research on Sales Force Automation in Pakistan (bit.ly/3sc9kTC)

Jun. 2018 – Jul. 2018

- Worked under Mr. Luqman Awan, Economics instructor at Lahore University of Management Sciences (LUMS), to conduct case studies of Sales Force Automation's viability across different manufacturing and service sectors
- Article incorporated into LUMS curriculum and is taught to ~400 students annually

AWARDS AND HONORS

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

Roll of Honor (Class Valedictorian) *Lahore Grammar School*

Oct. 2019

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

Dec. 2018

Top in World, Cambridge O Level Sociology *Cambridge International Examinations*

Jan. 2018