Syed Talha Ali

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SKILLS

Languages : Python, Java, JavaScript, C, HTML, CSS, Racket, Haskell, MIPS Assembly
Libraries & Frameworks : Scikit-learn, Numpy, OpenCV, Bootstrap, Flask, Unit Test, Beautiful Soup
IDEs & Tools : Visual Studio, Pycharm, Eclipse, VirtualBox
Version Control : Git

EDUCATION AND AWARDS

University of Toronto   Aug. 2019 – May 2024
Computer Science Specialist and Minor in Mathematical Sciences   3rd Year
- **CGPA**: 3.5 on a 4.0 Scale
- **Coursework (Computer Science)**: Object Oriented Design, Data Structures, Algorithm Design, Problem Solving, Complexity Analysis, Software Design, Operating Systems
Coursework (Math): Calculus, Linear Algebra, Statistics and Probability, Mathematical Proofs

Awards
Scholarships
- **UTM Entrance Award**: $3,000
- **University Of Toronto Scholar** : $7,500
- **Dean's List** : Top 15% of all students (First Year)

HTML, CSS, and Javascript for Web Developers Course: John Hopkins University via Coursera   2021

International Business and Technology Certificate: Gordon Graydon Highschool   2019

PROJECTS

Self Learning Drawing Bot Game   *github.com/stalhaali/SelfLearningDrawingBot*
- Trained a machine learning model in **Python using Scikit-learn's** KNeighborsClassifier; **achieved a 90%** test accuracy on drawings
- Implemented a web app by using **Flask** as the back-end and used **HTML, CSS and JS** to create the front-end
- **Processed the images** sent from the front-end into a form readable by the trained model, using **Computer Vision/OpenCV**, and then send the trained model's prediction back to the front-end

Transit System   *github.com/stalhaali/CSC207-Transit-System*
- **Worked in a fast moving team environment (4 students)** to create a Transit App in **Java**
- Used **design patterns such as MVC and singleton** to make code that is extendable, easy to maintain and reusable
- Utilized **an Agile development process and Git for version control** to structure and manage project

YouTube   Aug. 2019 – Present
Creator (@InternetReacts)
- Grew channel through social media and sponsorships to **3000 subscribers in 1.5 years**
- Created **20+ data visualizations** with a partner on sports statistics using Python libraries such as Plotly and Bar-chart-race **accumulating 2.5M total video views**
- **Featured on the pages of world renowned brands like SPORTbible, SPORF and GiveMeSport**
- **Highlights**: Goal Comparison By Age, Player Performce Comparison in UEFA's Top 5 Leagues, Messi vs Ronaldo

Animated Data Visualizer Website   *github.com/stalhaali/AnimatedDataVisualizer*
- Designed and released a website using **Python, Flask, HTML, CSS and JS** to allow YouTube channel fans to create their own data visualizations
- **Built a database using SQLAlchemy** to keep track of user login and graph information
- Followed **Scrum Framework** to ensure partner and I adequately structure and manage the project

EXTRACURRICULAR

Canadian Ultrasound Institute and Research Centre   Aug. 2017 – 2019
Volunteer
- Taught new immigrants the basics of **Microsoft Office software (Excel, Word and Powerpoint)**, gaining over **100+ volunteer hours**