SHAHIL PATEL

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github.com/Shahil-Patel | shahil-patel.github.io/portfolio

RUTGERS NEW BRUNSWICK: COMPUTER SCIENCE AND STATISTICS

Innovative, Hardworking, Team player, who has strong Technical and Analytical skills. Able to apply lessons learned efficiently with a facility for building positive relationships with a strong skill set in statistics and computer programming who is results-oriented.

WORK EXPERIENCE

Incoming Research Assistant @ Aresty Research Center – Rutgers University   **September 2022**
- Working with Professor Xiang Liu on using Artificial Intelligence for Next-Generation Intelligent Transportation Systems

Incoming Software Engineering Intern @ Merck   **May 2022**
- Working with Merck Animal Health's Precision Technology Group

Data Science Intern @ Raymond James   **May 2021 - September 2021**
- Assisted with investment planning and asset allocation for NBA, NFL, MLB, and collegiate athletes
- Used Excel VBA and Python based Web Scraping tools in order to compile specific statistics and algorithmically rank the Dow 30's best dividend securities to maximize client portfolio growth
- Utilized Python and various libraries to algorithmically collect data about potential clients to facilitate faster client outreach
- Automated the rebalancing of client portfolios using a combination of Python, Web Scraping tools, and Excel VBA

MAJOR PROJECTS

Athena (Rutgers 2022 Hackathon Google Cloud Category Winner)   **April 2022**
- Parses through educational/lecture videos (mp4/mp3/.wav files) and creates a summary based on user input
- Uses a modified SMMRY algorithm to find n most important sentence from a transcript
- Python project that utilizes Google Cloud Speech to Text, gcloud CLI, NLP (powered by NTLK), and Tkinter for UI
- Athena is able to parse through a full length 90 minute lecture video in just under 10 minutes
- Specifically worked on the Google Cloud Speech to Text, NLP and UI portions of the project

Investic (Unreleased)   **April 2020**
- Paper trading stock portfolio app for the US Stock Market created in Java on Android Studio
- Uses Alpha Vantage API in order to receive real-time stock data in JSON format
- Enables users to buy and sell all non-OTC stocks listed in the US Stock Exchange
- Insures persistence by saving the user's portfolio in app's local data via XML files

Virtual Reality Fruit Ninja   **March 2020**
- A 360° Virtual Reality Game based on the popular mobile game "Fruit Ninja"
- Enables player to use two VR controllers to slice various fruit around a simulated 3D environment
- Coded in C# in the Unity IDE
- Physics in the game are coded to replicate the real world as close as possible

EDUCATION & DEVELOPMENT

Rutgers University: B.S in Computer Science and Statistics (double major)   **2020 - Fall 2024**

GPA: 4.0/4.0 (Cumulative and Major)

Relevant Coursework:
- **Computer Science:** Data Structures, Computer Architecture, Design and Analysis of Algorithms, Software methodology, Principals of Programming Languages, Discrete Structures I/II, VR and Game Development, Android Development
- **Statistics:** Regression Methods, Intermediate Statistical Analysis, Computing/Graphics in Applied Statistics,
- **Math:** Linear Algebra, Calculus I/II/III

SKILLS

Skills: MS Office Suite, iOS, R, Java, C#, HTML, CSS, OCaml, Prolog, Java Script, Python, GitHub, BitBucket, Google Applications

Frameworks/IDEs: Android Studio, Unity, Git, GitKraken, IntelliJ, VS Code, Eclipse

PERSONAL INTERESTS

Languages: English, proficient in Gujarati, and Swedish (Intermediate level)

Travel: Love to try new foods from all around the world and have been to 20+ countries