

SHAHIL PATEL

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

RUTGERS UNIVERSITY - NEW BRUNSWICK: COMPUTER SCIENCE

WORK EXPERIENCE

Incoming Software Engineering Intern @ Epic Games

May 2023

Undergraduate Research Assistant @ Rutgers University - New Brunswick

September 2022 - Present

- Working with Professor Xiang Liu on using Artificial Intelligence for Next-Generation Intelligent Transportation Systems

Software Engineering Intern @ Merck

May 2022 - August 2022

- Utilized Python, AWS, and Dataiku on Merck's Animal Health Precision Technology Group to manipulate agricultural and transactional data for various international clients in an Agile Work Environment
- Expanded upon Python library that automates fetching, preparation, transformation, and analysis of data within Dataiku reducing data processing time by 14%
- Automated the calculation of KPIs for international agricultural facilities using lasso quantile regression, forward stepwise regression, and LQMM for use in web dashboards reducing calculation time by 22%
- Designed a comprehensive web dashboard to display and simulate agricultural KPI data for clients using data generated in Dataiku and stored in AWS S3 buckets

Technology Analyst Intern @ Raymond James

May 2021 - August 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 Python and Excel VBA increasing rebalancing speed by 90%

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 NLTK), 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

EDUCATION & DEVELOPMENT

Rutgers University: B.S in Computer Science and Statistics (double major)

2020 - Fall 2023

GPA: 4.0/4.0 (Cumulative and Major)

Rank: 1st/4584

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 App Development, Internet Technology,
- Statistics:** Regression Methods, Intermediate Statistical Analysis, Computing/Graphics in Applied Statistics,
- Math:** Linear Algebra, Calculus I/II/III

SKILLS

Skills: Java, Python, C#, C, HTML/CSS, OCaml, Prolog, JavaScript, R, React, Pandas, Agile Work Environment

Software: AWS, Android Studio, Unity, Firebase, Figma, Git, G Suite, GitHub, BitBucket, Jira, Dataiku,

PERSONAL INTERESTS

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

Travel: Love to try new foods from all around the world and have been to 25+ countries