

Aryaan Khan

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EDUCATION

Yale University | New Haven, CT

Expected Graduation: May 2024

B.S. in Computer Science, Certificate in Statistics & Data Science

Cumulative GPA: 3.97

Coursework: Introduction to Programming, Data Structures, Data Exploration and Analysis, Systems Programming and Computer Organization, Probability Theory, Mathematical Tools for Computer Science

Udemy.com | 100 Days of Code: The Complete Python Pro Bootcamp for 2022

Online Course

- Acquired advanced programming skills using Python, including Object-Oriented Programming, REST APIs, Data Visualization, and Web Development

SKILLS

Languages: Python, C, C#, HTML/CSS, R, JavaScript, SQL

Technologies: Flask, Jupyter Notebook, Pandas, Matplotlib, Seaborn, Plotly, Git, Regex, Unity, Selenium, BeautifulSoup, SQLite, SQLAlchemy, RESTful API

WORK EXPERIENCE

Undergraduate Research Assistant | Yale School of Medicine

June 2021 - Present

- Analyze, model, and interpret gene list data using Python and Pandas in Jupyter Notebook and R in RStudio
- Contribute intellectually and creatively to experiment design, anticipate potential pitfalls, and brainstorm effective solutions

LEADERSHIP ACTIVITIES

Mentor | Code Haven

September 2021 - Present

- Engage middle school students in understanding basic programming concepts such as variables, loops, and more through MIT Media Lab's Scratch
- Instill passion and motivation in students for learning computer science through hands-on coding activities and educational demonstrations

PROJECT EXPERIENCE

Spotifeel | Python, Flask, HTML/CSS

- Designed a web app that creates a custom Spotify playlist for users based on their current mood
- Implemented features such as choosing the number of songs, customizing the playlist title, and excluding or including explicit songs

Cortex-Cerebellum Analysis | Python, Pandas, Matplotlib

- Analyzed differences in molecular pathways during neurodegeneration between the cortex and cerebellum
- Created data models, visualizations, and multiple figures for a scientific journal publication

Typing Terror | Unity, C#

- Implemented a 2-D typing game, with an objective of typing out the words written on the raining boulders before they reach the neighborhood
- Integrated animations, sound effects, a score tracker, and menu screens