# 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, Systems Programming and Computer Organization, Discrete Mathematics, Data Exploration and Analysis, Probability Theory

**Udemy.com | *100 Days of Code: The Complete Python Pro Bootcamp for 2022***          Udemy Online Course
- Acquired advanced programming skills in Python, including Object-Oriented Programming, REST APIs, Data Visualization, and Web Development, in project-based contexts

## SKILLS

**Languages:** Python, C/C++, C#, HTML/CSS, R, JavaScript, SQL
**Technologies:** Flask, REST APIs, Git, Unity, SQLite, SQLAlchemy, Jupyter, Pandas, Matplotlib, Plotly
**Characteristics:** Communication, Time Management, Attention-to-Detail, Problem-solving, Collaboration

## 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
- Co-authored two significant peer-reviewed scientific papers regarding research in neurodegeneration in reputable science journals
- Contribute intellectually to experiment design, anticipate pitfalls, and brainstorm effective solutions

## LEADERSHIP ACTIVITIES

**Classroom Mentor | Code Haven**                                                   *September 2021 - Present*
- Engage middle school students in understanding basic programming concepts such as variables, loops, and functions through MIT Media Lab's Scratch program
- Instill passion and motivation in students towards learning computer science through hands-on coding activities and educational demonstrations

## PERSONAL PROJECTS

**Spotifeel |** *Python, Flask, HTML/CSS, Spotify API*
- 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

**Typing Terror |** *Unity, C#*
- Implemented a 2-D typing game which involves typing out words written on the raining boulders before they destroy the neighborhood
- Integrated animations, sound effects, a score tracker, and menu screens

**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