Rakesh Pillai

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Technical Experience & Projects

Slingshot   **Jul. 2020 – Dec. 2020**

Software Engineering Intern

- used the React Native framework to develop a cross-platform app to collect gesture pattern (swiping, tapping, etc.) data from users
- utilized Firebase platform to authenticate users and store data collected from users
- analyzed data collected from app using Python and built multiple Machine Learning models using the K-Nearest Neighbors algorithm

Mobile & Web App Development Lab (School Research Lab)   **Sep. 2020 – present**

Student

- using Android Studio to build a fitness application to streamline the process of finding a weightlifting regimen for weightlifters
- utilizing SQL to store user data and weightlifting program data

EDUCATION

Thomas Jefferson High School for Science and Technology
June, 2021

- 4.26/4.00 (Weighted GPA)
- 2 years of Varsity Basketball, Vice-President of German Honor Society, Treasurer of Innovations and Concepts in Engineering Club, Team Captain of Rocketry Team
- Relevant Coursework: AP Calculus AB & BC, Multivariable Calculus and Matrix Algebra, AP Computer Science A, Parallel Computing, AP Physics C Mechanics and Electricity and Magnetism

SKILLS & INTERESTS

- **Skills:** proficient in Java and C, comfortable with Python, HTML, and JavaScript
- **Interests:** creating Python automation scripts; competing in capture the flag competitions; solving Rubik's cubes; hiking; snowboarding; playing basketball