

Abhigya Sinha

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EDUCATION

Rutgers University

B.S. in Computer Science and Data Science

New Brunswick, New Jersey

Expected Graduation, December 2025

- Related Coursework:** Computer Architecture, Combinatorics, Data Structures and Algorithms, Linear Algebra, Intro Data Science, Data Management for Data Science, Inference Data Science

PROJECTS

Axis | Flutter, Dart, Firebase

March 2023 - Present

- Leveraged Firebase for authentication, ensuring secure user logins via email/password with potential integration for Google/phone number authentication, enhancing user convenience and security.
- Employed Flutter for front-end development, creating user-friendly interfaces with login/sign-up screens, form validation, and password reset functionalities.
- Utilized Firebase Firestore as the database solution for team-based structures, enabling users to create/join teams using unique codes, facilitating effective collaboration between coaches and athletes.
- Implemented real-time communication features using Firebase Cloud Messaging for group chats, individual messaging, and user profiles with detailed calendars and habits tracking, optimizing athlete-coach interactions and support.

FiziQ | React, Javascript, Python, MongoDB, Express, NodeJS

March 2023 - Present

- Utilized MongoDB as the database to store over **50+** workouts, **20+** posts, and **30+** initial users
- Implemented the backend using Express to handle server-side operations and API endpoints, ensuring smooth communication between the frontend and database.
- Implemented user authentication and authorization functionalities using JWT tokens, ensuring data privacy and security.
- Utilized Node.js as the server environment to run the backend logic and handle requests from the frontend, ensuring a robust and scalable architecture.
- Engineered an API using Python to connect the frontend to the MongoDB database, ensuring seamless data flow.

Echotune | React, JavaScript, Tailwind

December 2023 - Present

- Developing a feature-rich music player leveraging React for dynamic front-end functionality.
- Enhanced application with advanced song recognition capabilities through seamless integration of the Shazam API, resulting in a notable **20%** reduction in search time.
- Crafting a visually appealing and responsive user interface using Tailwind CSS.

Pokedex | React, JavaScript, GCP

October 2023 - November 2023

- Connected with the PokeAPI to dynamically fetch comprehensive Pokemon data based on user-supplied input.
- Executed asynchronous functions and the API to efficiently retrieve information such as name, image, types, and moves.
- Constructed core React Native components, including TextInput for user input, Button for triggering API requests, and ScrollView for seamless content display.
- Successfully deployed on Google Cloud Platform, showcasing a commitment to scalable and reliable hosting solutions.

Weather App | React, JavaScript

October 2023 - November 2023

- Engineered a responsive React Weather App, integrating the OpenWeatherMap API for real-time weather data.
- Established efficient state management using functional components and React hooks.
- Demonstrated proficiency in leveraging third-party APIs to deliver dynamic content.
- Designed an intuitive user interface, featuring a dynamic city list component (CityList) to enhance user interaction.

SCHOOL ORGANIZATIONS

HackRU Hackathon | Hacker

March 2024

- Led a team of four to develop a dynamic MERN Stack App within a 24-hour timeframe

Rutgers Entrepreneurial Society | 1766Labs Vice President

October 2023 - Present

- Oversee and guide **50+** fellows within the program.

Rutgers Mobile App Development | Accelerator Program mentee

October 2023 - January 2024

- Actively contribute to the development of React and Node.js applications within the club.

Rutgers USACS | Member

October 2023 - Present

- Participate in dynamic discussions with like-minded peers who share a fervor for technology.

Rutgers Organization of Cloud Computing | Member

October 2023 - January 2024

- Actively contribute to the implementation of Virtual Machines (VMs) and EC2 Instances.

SKILLS

Programming: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Dart, Terraform, R, PHP

Tools: Flutter, React, Node.js, Git, Docker, Visual Studio, AWS, Azure, Linux, GCP, PostgreSQL, Express, MongoDB, Firebase, Tensorflow