

# Saibyasachi Ruhan

US Citizen | Greater New York City Area | [sabyasachidasrohan71@gmail.com](mailto:sabyasachidasrohan71@gmail.com) | [LinkedIn.com](https://www.linkedin.com/in/saibyasachi-ruhan/) | [GitHub.com](https://github.com/saibyasachi-ruhan/) | [My Portfolio](#)

## EDUCATION

### The City University of New York, Queens College

May 2025

Bachelor of Arts In Computer Science

**Coursework:** Data Structure & Algorithms, Software Engineering, Object-Oriented Programming, Theory of Computation, Computer Architecture

## SKILLS

**Programming:** C++, Java, Javascript, SQL, C#, HTML/ CSS

**Tools:** Node.js, MySQL Workbench 8.0 CE, VScode, Adobe Photoshop, Adobe InDesign, Unity

## PROFESSIONAL EXPERIENCE

CodeAdvantage

New York, New York

### Software Engineer Instructor

June 2023-Present

- Developed unique lesson plans and facilitated advanced STEM learning initiatives in NYC schools that increased student engagement and comprehension by 80% and inspired a child's interest in computer science in the age range of 5 to 12.
- Developed comprehensive lesson plans addressing Machine Learning, AI gaming, and programming fundamentals, improving student engagement and learning objectives overall.
- Gained proficiency in STEM education, refining teaching strategies, and contributing to elevated student enthusiasm and performance in technology subjects.

## PROJECTS

### Chatbot

December 2023

- Developed a multifaceted chatbot enabling engaging conversations and incorporating key features like a calculator, date/time functions, and user interactive games (Rock-Paper-Scissors, Chess, Soccer, and Battleship), along with cybersecurity features such as password generation and strength assessment, to provide both entertainment and enhanced digital security.
- Provided adaptability and creativity in improving chatbot features based on user feedback, achieving over **90% user satisfaction** for its entertaining and helpful experience.

### Machine Learning Model for Cancer Diagnosis

January 2024

- Developed and trained a neural network using **TensorFlow** to predict cancer diagnosis, involving data preparation and model training with early stopping to enhance performance.
- Utilized Pandas for data handling and **Scikit-learn** for splitting the dataset, and fine-tuned the neural network to improve accuracy in cancer diagnosis prediction.
- Designed the model to assist in early cancer detection, potentially benefiting users by providing accurate and timely diagnoses, thereby facilitating earlier treatment and improving patient outcomes.

### Pomodoro Timer

July 2023

- Developed an advanced time management tool featuring adaptive focus intervals, comprehensive task tracking, and detailed activity analytics, significantly enhancing productivity and efficiency techniques.
- Achieved an **85% user satisfaction rate** with the Pomodoro Timer app, especially enhancing user work habits and time management efficiency.

## Activities

**School Organizations:** Committee members for Code For All, Code Resolve(), ALPFA QC, Girls Who Code

