

# Rakib Shahid

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## EDUCATION

### Queens College, City University of New York

*Bachelor of Science in Computer Science, Dean's List*

June 2025

3.85 GPA

## TECHNICAL SKILLS

**Programming & Development:** Python, Java, C++, JavaScript, PHP, HTML/CSS, MySQL, PostgreSQL

**Tools & Frameworks:** React, Bootstrap, Next.js, Node.js, jQuery, Pandas, NumPy, JUnit, Git, Docker, Linux

## EXPERIENCE

### Computer Science Tutor

February 2023 – Present

*Queens College Learning Commons*

*Flushing, NY*

- Provided individual and group tutoring sessions for hundreds of students across five Computer Science courses in C++ and Java covering topics such as Object Oriented Programming, algorithms, and data structures.
- Created extra learning materials, including extra assignments, study guides, and mock exams, which helped students improve their academic performance by an average of 20%.

### Google Software Engineering Program

March 2024 – September 2024

*Google*

*New York, NY*

- Worked with Google Software Engineers in 1-on-1 meetings, refining problem solving abilities and technical coding skills.
- Built strong data structure and algorithm foundations via guided exercises and mentorship from industry experts.
- Improved assessment results by 40%, showcasing significant growth in programming skills and problem solving efficiency.

### Software Build Student Consultant

July 2024 – September 2024

*The Build Fellowship*

*New York, NY*

- Launched a full stack application for a coding club of 1500+ members to compete solving LeetCode problems, utilizing Express.js and Vue.js, and hosted it on Vercel for scalable deployment.
- Automated user ranking and scoring with a Python script that integrated a LeetCode API, enhancing leaderboard accuracy by validating data and implementing automated cleanups, maintaining data integrity for fair competition across users.

### Software Engineer Intern

February 2023 – May 2023

*Unadat*

*New York, NY*

- Engineered a user achievement system leading to an 18% increase in site-wide feature usage, leveraging JavaScript, MySQL, and PHP to track user activity and reward engagement, encouraging further site exploration.
- Built an anonymous friending system using SQL and jQuery to connect users leading to a 10% increase in daily login traffic.
- Designed and integrated a secure interface for editing previous payment data with validation checks using React.
- Enhanced user experience by implementing avatar customization features with Bootstrap for an intuitive profile interface.

## PROJECTS

### TeachSuites – Hackathon Winner, Best Education Track

- Won the best education track by developing an Android application in Kotlin to automate exam creation and grading, saving teachers 50% of their time spent grading assignments and assessments.
- Integrated the Google Gemini API to automate grading and feedback, accelerating analysis and reducing costs for schools.
- Built a backend using Express.js and TypeScript with a PostgreSQL database, structured for seamless Google Classroom integration and efficient data handling.

### Social Media Addiction Predictor

- Implemented a Random Forest machine learning model in Java to predict social media usage patterns with an average accuracy of 98%, enabling reliable identification of addiction risks.
- Built an interactive web interface using React for collecting user information, and seamlessly integrated it with a MySQL database via Node.js, enhancing data collection efficiency and user experience.

### Custom Keyboard Firmware

- Programmed custom keyboards in C which were built using Raspberry Pi microcontrollers and designed with CAD.
- Engineered a solution for a critical bug affecting ST7735 screens by updating initialization code with proper gamma values, which was reviewed and merged into an open-source keyboard firmware repository with over 37,000 users on GitHub.
- Integrated the Spotify API in C++ using multithreading to display real-time listening statistics on the keyboard.

## EXTRACURRICULARS

### Workshop Developer | *Code for All & Code Resolve*

September 2022 – Present

- Designed and hosted workshops for Computer Science students covering various topics such as programming language fundamentals in Python, integrating APIs in personal projects, and the basics of microcontrollers and embedded firmware.

### International Collegiate Programming Contest (ICPC) Competitor

November 2024

- Ranked 64th out of 83 teams in the greater New York region, outperforming 20 teams in a highly competitive environment.
- Tackled advanced coding challenges under strict time constraints, showcasing strategic problem-solving and teamwork skills.