

Rohit Biswas

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EDUCATION

Columbia University

Bachelor of Science in Computer Science

Manhattan, NY

Expected May 2027

Fordham University

Bachelor of Science in Engineering Physics

Bronx, NY

Aug 2022 - May 2025

EXPERIENCE

IT Engineer

Columbia Technology Ventures

Oct 2025 – Present

Manhattan, NY

- Configured and imaged over **50+** Windows 10/11 workstations using **Microsoft Deployment Toolkit (MDT)** and automated provisioning scripts, reducing setup time per device by **40%**.
- Developed **PowerShell** scripts to automate software installation, driver updates, and network printer mapping, streamlining repetitive configuration tasks across lab and office systems.

Software Engineering Mentee

CodePath.org

Sep 2024 – Present

Remote

- Engineered **HobbyHub**, a community chat platform, with **Vite React** and **Supabase**, enhancing the user experience by optimizing navigation and user interface design.
- Designed a web-based character customizer for the Codepath community, facilitating unique character creations using **Supabase** and **advanced routing**.

Cybersecurity Intern

NYCHA

Jun 2025 – Aug 2025

Manhattan, NY

- Resolved **20+** security incidents by triaging alerts in Splunk Enterprise Security, escalating legitimate threats to senior analysts, and reducing investigation turnaround time by **40%** with a reusable Splunk search template.
- Reduced open dynamic scan findings by **30%** in 6 weeks by leveraging Veracode Dynamic Analysis (DAST) to identify vulnerabilities in externally-facing web applications and generate actionable remediation reports.

IT Engineer

Enrollment Group at Fordham University

May 2023 – Jun 2025

Bronx, NY

- Spearheaded the coordination and deployment for enterprise platforms including PowerFAIDS, Crowdstrike, SPSS, LANDESK, and Hyland OnBase Unity Client by utilizing strategic planning and coordination techniques.
- Improved inventory management and support efficiency by maintaining accurate records in FreshService, Google Sheets, and Excel, and producing video tutorials for common technical issues, ensuring timely support and resource allocation.

PROJECTS

Stemme.Study | Python, React, Node.js, Express.js, Gemini API, ElevenLabs, Web Speech API, Vite | [GitHub](#)

- A full-stack AI companion that assists children with speech disorders through real-time speech-to-text, text-to-speech, and generative dialogue using Python, React, Gemini API, and ElevenLabs, earning an MLH award at DivHacks 2025.

AutoDump | Raspberry Pi, OpenCV, Python, C++, Arduino, ROBOTIS OpenRB-150 | [GitHub](#)

- An autonomous self-emptying trash rover that vision-docks to bins using ArUco markers and ultrasonic sensing, then servo-dumps into a central can, winning at MakeCU.

R2D3 | C++, Arduino, SolidWorks, TinkerCAD | [GitHub](#)

- A proof-of-concept solar tracker that automatically orients a photovoltaic panel in two axes to maximize sunlight exposure. Built with an Arduino Uno, hobby servos, a solar panel sensor, and custom PLA-printed parts modeled in SolidWorks.

HTTP/1.0 Web Server & mdb Lookup | C, POSIX Sockets, HTTP/1.0 | [GitHub](#)

- Built a C-based HTTP/1.0 web server that serves static HTML/image files and a dynamic lookup endpoint backed by a persistent TCP mdb-lookup service, with full request parsing, status-code handling, and basic path security checks.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, SQL (PostgreSQL), JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, FastAPI

Tools: Git, Docker, Bash, PowerShell, Linux/UNIX, Splunk, Veracode, Supabase

Libraries: OpenCV, NumPy, pandas, Matplotlib