

# 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