Rohit Biswas

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Education

Columbia University & Fordham University — Manhattan, NY — Bronx, NY
Dual Bachelor's Degrees — *Aug 2022 - May 2027*

B.S. in Computer Science (Columbia University, Expected May 2027)
B.S. in Engineering Physics (Fordham University, May 2025)

Experience

IT Engineer — Oct 2025 – Present
Columbia Technology Ventures — *Manhattan, NY*

- Engineered automated IT workflow solutions reducing manual administration time by **40%** by developing bash scripts, scheduling automation, and room scheduling/permission management features.
- Improved system reliability and cut incident response time by **60%** by implementing log aggregation monitoring, creating automated alert pipelines for **500+** daily events, and optimizing infrastructure.
- Eliminated compatibility issues across **100+** machine configurations by designing systematic BIOS/software deployment pipeline with CI/CD-style weekly rollouts and automated validation.

Software Engineering Mentee — Sep 2024 – Present
CodePath.org — *Remote*

- Completed 3 technical tracks (web development, cybersecurity, mobile development) through intensive coursework, building **12+** projects and mastering modern frameworks including React, React Native, and security best practices.
- Collaborated with **20+** peers on code reviews and pair programming sessions to improve code quality, debug complex issues, and learn industry-standard software development workflows.

Cybersecurity Intern — Jun 2025 – Aug 2025
NYCHA — *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 — May 2023 – Jun 2025
Enrollment Group at Fordham University — *Bronx, NY*

- Automated enterprise software deployment and data processing workflows using PowerShell, Python, and Bash scripts, reducing deployment time by **70%** and ensuring consistent configurations across **200+** workstations.
- Integrated multiple enterprise platforms (PowerFAIDS, Crowdstrike, LANDESK) via REST APIs and database connections, containerizing services to enable seamless cross-platform data synchronization and automated reporting.

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.

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.

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 dual-axis solar tracking system using Arduino, servos, and photovoltaic sensors with custom 3D-printed mounts.

Technical Skills

Languages: C, C++, Python, Java, SQL (PostgreSQL), JavaScript, HTML/CSS
Frameworks & Libraries: React, Node.js, Flask, FastAPI, OpenCV, NumPy, pandas, Matplotlib
Tools: Git, Docker, Kubernetes, Bash, PowerShell, Linux/UNIX, Splunk, Veracode, Supabase