

Rishabh Mittal

Software Engineer | Computer Science, Stony Brook University
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EXPERIENCE

Educational Technology & Accessibility Assistant

Mar 2026 - Present

Stony Brook University · Division of Information Technology

- Audit and remediate 500+ digital course documents for Section 508 and WCAG 2.1 AA compliance.
- Developed Python batch workflows that reduced average remediation time from 25 minutes to under 10 minutes per document.

Software Engineering Intern

Feb 2026 - Mar 2026

Todd · Remote

- Designed database schemas and migration pipelines with Drizzle ORM for Python and TypeScript microservices.
- Reduced end-to-end API latency by 35% by profiling PostgreSQL queries and restructuring indexes and joins.

Software Engineering Intern

Jul 2025 - Sep 2025

ATHENS · Remote

- Delivered 8+ production UI components from Figma specifications, including responsive layouts, keyboard navigation, and ARIA support.
- Created a 70+ scenario QA suite and documented 30+ reproducible bugs, reducing average fix time by 40%.

Media Systems Engineer

May 2025 - Mar 2026

Stony Brook University · Division of Information Technology

- Diagnosed AV and control-system failures across 200+ classrooms by tracing hardware, firmware, drivers, networks, and signal paths.
- Managed 100+ tickets per month through the full incident lifecycle.

SELECTED PROJECTS

Phreddit | React / Express / MongoDB

Built a session-authenticated MERN discussion app with 37 source-defined HTTP endpoints, iterative comment-tree assembly, conditional vote updates, and administrator moderation; 117 declared automated tests.

Cloud Music Streaming Platform | AWS / Docker / Redis

Designed independent playback, recommendation, and playlist services using Docker, AWS, Redis, and Python; evaluated collaborative filtering on simulated interaction data.

C Block Tracer | C / Parsing / Static analysis

Implemented a C-like static-analysis CLI with nested scopes, chained hash-map symbol tables, and declaration/shadowing diagnostics.

Ecological Pyramid Simulator | Java / Data structures / JSON

Built a Java food-web simulator with generic trees, dietary validation, DFS/BFS queries, JSON persistence, and snapshot-based undo/redo.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, C, SQL

Backend & data: Node.js, Express, Spring Boot, PostgreSQL, MongoDB, Mongoose, Redis, REST, Socket.IO, Drizzle ORM

Infrastructure & delivery: AWS, Docker, GitHub Actions, Vercel, Render, Git, Linux

Frontend, testing & accessibility: React, Vite, HTML/CSS, Playwright, Jest, Vitest, React Testing Library, WCAG 2.1, ARIA

EDUCATION

Stony Brook University | B.S. Computer Science | Expected May 2027

Dean's List / Global Excellence Scholar / Far Beyond Scholar / \$12,000 Merit Scholarship