

Sagor Sutra Dhor

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EDUCATION

City University of New York (CUNY) - Brooklyn College

Bachelor of Science in Computer Science; GPA: 3.61

Brooklyn, NY

Aug. 2024 – Present

- Expected Graduation: May 2027
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computer Architecture, Operating Systems, Software Engineering, Database Systems

EXPERIENCE

Undergraduate Research Assistant (Software Development)

Feb. 2026 – Present

CUNY-MASSLAB (Prof. H. Chen & Prof. L. Goetz), Brooklyn College

Brooklyn, NY

- Built a course-grounded AI tutoring backend in Python and FastAPI, supporting session tracking, instructor review, and learner feedback workflows.
- Developed a retrieval-augmented generation (RAG) pipeline over syllabus and course materials using PostgreSQL/pgvector to generate cited, context-aware academic responses.
- Integrated Gemini and Ollama LLM workflows with privacy-safe logging, conversation state handling, and review mechanisms to improve response reliability.

Teaching Assistant - CISC 3130: Data Structures

Jan. 2026 – Present

Brooklyn College – Computer Science Department

Brooklyn, NY

- Support students in data structures, asymptotic analysis, memory management, and implementation tradeoffs.
- Lead lab sessions and provide feedback on correctness, code quality, and efficiency for 40+ students.

Artificial Intelligence Research Assistant

Jul. 2025 – Mar. 2026

Software Vulnerability and Defect Detection Lab (Prof. H. Chen)

Brooklyn, NY

- Architected Python parsers to convert 200+ pages of curriculum data into structured JSON, reducing manual effort and achieving 99% output accuracy.
- Set up CI/CD workflows via GitHub Actions to automate testing, linting, and release steps for reliable team iteration.
- Mapped 500+ knowledge-CWE pairs across 19 CS2023 Knowledge Areas using zero-shot and few-shot prompting for a 2026 research submission.

HONORS & FELLOWSHIPS

Tow Mentoring and Research Program Fellow

Sep. 2026 – Dec. 2026

Selected as a mentor-mentee pair alongside Department Chair Prof. Hui Chen

- Selected to conduct independent computer science research under faculty mentorship and present findings at the Tow conference.

Tow Summer Undergraduate Research Program (URP) Fellow

Jun. 2026 – Aug. 2026

CUNY Brooklyn College

- Selected for an 8-week research fellowship investigating LLM-assisted mapping of CS2023 curriculum topics to CWE software weakness categories and presented findings at the Summer Showcase.

PROJECTS

AlgoDeck: Adaptive Learning Platform | Next.js, TypeScript, PostgreSQL, AWS

Feb. 2026 – Present

- Built an adaptive CS learning platform with 1,000+ questions using spaced repetition and PostgreSQL-backed progress tracking.
- Developed a modular Next.js frontend supporting sub-second page loads and real-time learning analytics.
- Deployed on AWS EC2 and S3 with automated content delivery for 1,000+ study resources.

BCStudentMart: P2P Marketplace | React.js, Firebase, Vite, Tailwind

Feb. 2025 – Present

- Built a peer-to-peer student marketplace with support for 100+ item listings and streamlined browsing workflows.
- Integrated Firebase Authentication and real-time messaging to enable secure user communication.
- Developed responsive React interfaces optimized for mobile and desktop users.

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, JavaScript, HTML, CSS, SQL

Frameworks & Tools: Next.js, React.js, Node.js, Express.js, Git, GitHub, Vite, Tailwind CSS

Databases & Cloud: PostgreSQL, Firebase (Firestore), AWS (EC2, S3), GitHub Actions