

Arunavo Chowdhury

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EDUCATION

Queens College, City University of New York

Bachelor of Science, Computer Science

Flushing, NY
Expected Dec 2026

Achievements: 3x Dean's List

Leadership/Affiliations: CodePath Peer Mentor, Girls Who Code College Mentor, Extern Student Ambassador

Relevant Coursework: Data Structures & Algorithms, OOP in Java & C++, Operating Systems, Database Systems, Principles of Programming Lang, Discrete Mathematics, Discrete Structures, Computer Organization & Assembly Language

EXPERIENCE

Outamotion

May 2025 – Jul 2025

Software Automation Intern

New York, NY

- Reduced manual mortgage document review time by 30% by building AI-powered classification and data extraction workflows using Python, NLP, and OCR (PyMuPDF, Tesseract)
- Improved mortgage document search accuracy by 25% by developing a Retrieval-Augmented Generation (RAG) pipeline with LlamaIndex
- Boosted document classification accuracy by 15% by benchmarking and fine-tuning open-source models (DocLLM, LayoutLM) and RAG tools (LangChain)

Webacy

Aug 2024 – Sep 2024

Web3 Data Analyst Intern

New York, NY

- Applied clustering and correlation analysis on 10+ risk tags, uncovering 5 key vulnerability patterns and improving smart contract risk modeling by 20%
- Analyzed and labeled vulnerabilities in 5 smart contracts, reducing labeling errors by 15% and improving data accuracy for workflows
- Reviewed and validated peer data labels for 100% consistency across 50+ entries, strengthening dataset reliability

Art Beyond Sight

Jul 2024 – Aug 2024

UI/UX Design Intern

New York, NY

- Enhanced website accessibility for 100+ users by aligning site design with WCAG 2.1 standards, ensuring improved readability
- Drafted 10+ detailed site improvement plans to enhance user experience, simplify navigation, and ensure intuitive organization
- Designed and prototyped 5 new site sections in Canva, collaborating with cross-functional teams to ensure inclusive design and accessibility compliance

PROJECTS

Fabulis | *JavaScript, Express, MongoDB, Gemini AI, TMDB API, AniList GraphQL*

[Live Demo](#) | [GitHub](#)

- Built a unified movie, TV, and anime discovery platform serving 20 REST endpoints across 4 MongoDB collections, by developing a Node.js and Express API that normalizes three external sources (TMDB REST, AniList GraphQL, Google Gemini) into one response schema and securing accounts with JWT authentication, bcrypt hashing, and rate limiting
- Improved recommendation relevance by building an AI engine returning 5 tailored titles per prompt, by integrating Google Gemini with a two-axis classification scheme that separates anime films from live-action series and feeding user genre preferences and dropped-title exclusions into each request

BlackScholes Dashboard | *Python, Streamlit, Yahoo Finance API*

[Live Demo](#) | [GitHub](#)

- Developed an interactive dashboard for option pricing with the Black-Scholes model, supporting real-time inputs
- Integrated financial data for sensitivity plots, heatmaps, and Greeks analysis, with a modular, tested codebase featuring error handling and a responsive UI

TECHNICAL SKILLS

Languages/Frameworks: HTML/CSS, JavaScript, Python, Java, C++, SQL, React, Bootstrap, Streamlit

AI/ML Tools: LlamaIndex, LangChain, NLP, OCR (PyMuPDF, Tesseract)

Databases/Cloud: Firebase, Supabase, Render, Vercel, Netlify

Certifications: [Software Engineering](#), [Cybersecurity](#); [Claude 101](#), [AI Fluency Framework & Foundations](#); [Data Literacy](#), [AI Fundamentals](#); CodePath – [WEB101/102/103](#), [CYB101](#), [AI110](#)