Fardin Iqbal

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EDUCATION

Stony Brook University — Stony Brook, NY | Aug. 2022 – May 2026
Dean's List | *B.S. Computer Science*

COURSEWORK

Relevant Courses: Data Structures (Java), Foundations of Computer Science (Python), Programming Abstractions (OCaml & Java), Systems Fundamentals (Linux, Git, Assembly, C), Probability & Statistics (R)
Certifications: AWS Cloud Technical Essentials (Coursera), Introduction to Cyber Security (TryHackMe)

SKILLS

Languages & Frameworks: Python (Django, Flask, & Plotly), Ruby (Rails), HTML/CSS (Tailwind), JavaScript (Node, React, & Express), C# (Unity), Java (Android Studio)
Tools & Databases: Git, GitHub, Linux, Heroku, PostgreSQL, MongoDB, Visual Studio Code, JetBrains, Airtable

EXPERIENCE

Beyer Blinder Belle (BBB) | *Design & Construction Technology Intern* — June 2024 – August 2024
- Developed and implemented Python scripts to automate BIM file management, translating Microsoft Power Automate and Excel Macros into a centralized Python project with Tkinter GUI for project and task selection.
- Integrated Windows Task Scheduler for automated execution, ensuring reliability with data verification, logging mechanisms, and monitoring automation success and failure, including automatic retries and notifications.
- Researched and integrated SQLite and PowerBI for data storage, accessibility, and meta-health dashboards, while maintaining and documenting code adhering to PEP8, with regular commits to BBB's GitHub repository.

The Hardy Group | *Marketing Intern* — October 2023 – December 2023
- Migrated customer data to Airtable and implemented data entry protocols, enhancing system customization and removing duplicates from a database of 13,000 clients to improve data management and accuracy.
- Utilized Microsoft Excel for data analysis and management, generating actionable business recommendations to drive strategic decision-making.

International Socioeconomic Laboratory (ISL) & Finxerunt | *Web Developer* — May 2022 – April 2023
- Led a Harvard-affiliated research project and non-profit organization focused on socioeconomic issues and civic activism, collaborating with students and scholars to conduct data-driven analysis and inform policy changes.
- Spearheaded the transition of ISL's website from SquareSpace to a self-hosted domain, utilizing HTML, CSS, and JavaScript to reduce costs and enhance functionality and user experience.
- Mentored a team of 10 students in designing and developing Finxerunt's website, employing HTML, CSS, and React to create a dynamic, user-friendly design while reducing code lines by 80%.
- Managed campaigns, led volunteers, and collaborated with journalists to educate and mobilize the community on equity and rights issues.

PROJECTS

FairShare | *Ruby on Rails, Tailwind, PostgreSQL* | GitHub | Live
Developed a full-stack expense-sharing web app with group finance management, secure user authentication, and real-time balance tracking, optimizing financial collaboration and transparency and notifications.

Spectrum Analyzer | *Flask, Python, Plotly* | GitHub | Live
A groundbreaking 3D modeling tool to transform raw exoplanet flux data from FITS files from NASA's JWST into interactive, spectral visualizations, pioneering a novel approach to astronomical data analysis.

Reddit Clone | *React, Node.js, MongoDB* | GitHub
Developed a full-stack Reddit-inspired social platform enabling users to create communities, post threads, and engage in discussions with nested comments and voting. Implemented real-time updates, authentication, and optimized API interactions for a seamless user experience.

Multiplayer Projectile Shooter Game (Snowball Fight) | *Unity, C#* | Live
A fast-paced, real-time multiplayer shooter with advanced physics-based projectile mechanics, cross-device matchmaking via room-based lobbies, and an immersive experience with dynamic sound effects.

Cold Caller | *Java, Android Studio, Firebase* | GitHub
An Android app for teachers to randomly call on students, track participation, and manage class sessions.