Fardin Iqbal

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Education

Stony Brook University —Stony Brook, NY Aug. 2022 - May 2026
Current GPA: 3.13/4.0 — 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), Ruby (Rails), HTML/CSS (Tailwind), JavaScript (React), C# (Unity)
Tools & Databases: Git, Linux, AWS, Terraform, Heroku, Jira, Agile, PostgreSQL, MongoDB, Docker, Heroku

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 unattended 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, PostgreSQL, AWS* | finshare-app-552abe51e905.herokuapp.com| github.com/FardinIqbal/FairShare
- Developed a full-stack web application for expense sharing and group finance management using Ruby on Rails.
- Implemented features such as user authentication, expense tracking, and real-time balance calculations.
- Utilized PostgreSQL for data management, deployed the application on Heroku and will implement AWS services.
- Incorporated responsive design principles to ensure a seamless user experience across desktop and mobile devices.

VerseCraft | *Ruby on Rails, PostgreSQL, SCSS* | versecraft-47189755311f.herokuapp.com | github.com/FardinIqbal/VerseCraft
- Developed platform for poetry with Hotwire (Turbo + Stimulus) for real-time features and SPA-like functionality.
- Implemented a TikTok-style short-form content viewer using Stimulus.js for interactive behavior and transitions.
- Designed a UI inspired by The New Yorker, focusing on typography and responsive layouts.
- Built features including real-time likes and comments with Turbo Streams, admin content moderation, and user authentication.

Spectrum_Analyzer | *Flask, Python, Plotly* | github.com/FardinIqbal/spectrum_analyzer
- Developed a 3D modeling program to visualize and analyze exoplanet flux data from the James Webb Telescope.
- Implemented an interactive time axis feature enabling astronomers to view multiple data states of exoplanets.
- Created visualization tools transforming 1D spectral data into interactive 3D models which has never been done.