Nirjhar Deb

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Personal Portfolio: https://nirjhardeb.github.io/

EDUCATION

Georgia Institute of Technology   **Atlanta, Georgia**
Bachelor of Science Computer Science   *Expected Graduation, May 2025*
                                                                                                            GPA 3.43

WORK EXPERIENCE

AT&T   **Dallas, Texas**
Software Engineering Intern   *June 2022 – August 2022*
- Upgraded AT&T's Inspected Network Access Program (INAP) by using **Python** and **Django** to transition from cookie authentication to Security Assertion Markup Language (SAML), providing over 1,300 employees and contractors a more secure, single sign-on login process.
- Developed scripts in **Python**, **SQL**, and **HTML** to uncover cybersecurity vulnerabilities by parsing INAP event logs, automate data exports to reveal valuable business insights, and refactor outdated code in INAP. Scripts were written and tested using the **PuTTY** SSH client.
- Contributed to a text-based game engine developed in **C++** and visualized in **Figma**, as a part of an **Agile** team project to demonstrate how AT&T can create faster, less memory-intensive gaming experiences.

PROJECTS

Georgia Tech Integrated Tutoring System Chatbot   **Atlanta, Georgia**
Software Developer   *January 2022 – Current*
- Collaborated with two students to implement a smart autocompletion feature to predict the user's question to the chatbot based on a few words of input.
- Spearheaded the development of a spellcheck algorithm in **Python**, which autocorrects the user's words prior to autocompleting their question.
- Built a local **SQL** database of over 6,000 previously asked questions, helping the chatbot autocomplete similar queries and add new questions to the database.

Personal Portfolio Website   **Atlanta, Georgia**
Full Stack Web Developer   *December 2021 – Current*
- Assembled an aesthetic, user-friendly website using GitHub Pages, **HTML**, and **CSS** to introduce myself, ongoing projects, and points of contact.
- Utilized **JavaScript** to retrieve a user's personal details from a contact form and send them to a secure Realtime Database hosted by Google Firebase.
- Overhauling front-end code to improve search engine optimization and ease of use on mobile devices.

HackGT 8: Food Analyzer and Nutrition Tracker   **Atlanta, Georgia**
Hackathon Team Member   *October 2021 – October 2021*
- Imported **Python's** OpenCV library to utilize the computer webcam to take a photograph of a food item and employed Google Vision's API to process the image and recognize the food.
- Scanned and parsed the FoodData Central database to find the food's nutrition information.
- Designed a graphical user interface using the **PyQt** toolkit to display the food photograph and nutrition details.

American School of Doha Technology Club   **Doha, Qatar**
Game Development Lead   *January 2020 – May 2020*
- Coordinated a team of 14 developers to construct 2D, 3D, and virtual reality games using **C#** and 3D modeling in Unity Game Engine and Unreal Engine 4. Showcased to over 200 attendees at the Qatar National Library.

SKILLS

Programming: Java, Python**,** HTML, SQL, CSS, JavaScript, C++, C#
Frameworks and Tools: Django, GitHub, Visual Studio Code, IntelliJ, PuTTY, CLion, PyCharm, Figma
Relevant Coursework: Data Structures, Object-Oriented Programming, Discrete Mathematics