

Spandan Chakrabarty

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TECHNICAL SKILLS

Languages: Python, C, SQL, JavaScript, HTML/CSS, Racket, Bash

Frameworks/Libraries: Flask, React.js, OpenCV, Docker, Scikit-learn, Django, Node.js

Developer Tools: Git/GitHub, Figma, VS Code, Linux, PowerBI, LaTeX, Firebase, Tableau, Jupyter Notebooks

PROJECTS

Online Student Portal

github.com/spandan3/Student_Portal

- Developed a web portal offering **personalized dashboards** with attendance, certificates, photos, and event planners for students.
- Automated attendance and photo sorting, reducing manual processing time by **40%** using AI-powered **face recognition** integrated with **MySQL database**.
- Enhanced sustainability by digitizing processes, reducing paper use, and improving accessibility for users.
- Built using **Python**, **Flask**, **OpenCV**, and **MySQL**.

Caffeine Tracker

github.com/spandan3/cafflog

- Developed a full-stack web app enabling users to **sign up**, **log in**, and log their caffeine consumption.
- Utilized **React.js** for building an interactive UI, **Firebase** for user authentication and database management and **localStorage** for temporary data persistence.

Recipe Finder

github.com/spandan3/recipe-finder

- Created a web app enabling users to search for recipes and access detailed information via the **Spoonacular API**.
- Designed an intuitive interface using **React.js** and styled components.

EXPERIENCE

Technical Project Member

Oct 2023 – Feb 2024

ADIS

Abu Dhabi, UAE

- Designed the **UI/UX enhancements** for the “ADIS - Save Water App” using **Figma** and **Flutter**.
- Contributed to the **deployment** of the app on **Google Play Store** and **Apple App Store**.
- Achieved **100+ downloads** within the **first month** of release, demonstrating strong market validation for water conservation efforts.

LEADERSHIP EXPERIENCE

High School Prefect

March 2023 – March 2024

- Collaborated with teachers to **organize** school events and **led** social media **campaigns** to enhance student engagement.

Environment Club Secretary

March 2022 – March 2024

- Designed and distributed **surveys** that gathered data from **300+ respondents** on water usage.
- Raised awareness of sustainable solutions by coordinating recycling efforts within the school and the community.

VOLUNTEER EXPERIENCE

Reading for the Visually Impaired

June 2023 – Jan 2024

Hidden Voices India

hiddenvoicesindia.org

- Read aloud stories and competitive exam materials for audio recordings.
- Conducted quality checks on recordings to ensure accuracy and clarity before deployment.

EDUCATION

University of Waterloo & Wilfrid Laurier University

Expected Graduation, Aug 2029

Bachelor of Computer Science (BCS) & Bachelor of Business Administration (BBA)

- GPA: 4.0/4.0**
- Related Coursework:** Techniques for Software Development, Algorithm Design and Data Structures, Linear Algebra, Calculus II, Micro & Macroeconomics, Business Frameworks, Time Value of Money