

# Spandan Chakrabarty

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## TECHNICAL SKILLS

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

**Frameworks/Libraries:** Flask, React.js, OpenCV, NumPy, Pandas, Matplotlib, Scikit-learn, Django, Node.js

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

## PROJECTS

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### Online Student Portal

[github.com/spandan3/Student\\_Portal](https://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](https://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](https://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

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### 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

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### 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

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### Reading for the Visually Impaired

June 2023 – Jan 2024

*Hidden Voices India*

[hiddenvoicesindia.org](https://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

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### 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