

# Sayak Mondal

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## EDUCATION

**Indian Institute Of Information Technology, Una**

*Bachelor of Technology, Computer Science and Engineering, GPA: 7.80/10*

Una, Himachal Pradesh, India

*December 2020 - June 2024*

## WORK EXPERIENCE

**ProductStackArray** (*SDE intern*) [[Certificate](#)]

May 2024 - July 2024

- Developed **AWS Lambda functions** to receive vendor details from the client-side front-end and authenticate **AADHAR, PAN, and GST information** using **Signzy services** via **RESTful APIs** for risk management and **KYC verification**.
- Devised a solution to securely store authenticated vendor data in **AWS S3 buckets**, ensuring **data integrity** and **compliance with security standards**.

**MyFab11** (*SDE intern*) [[Certificate](#)]

January 2023 - May 2023

- Implemented **TrueCaller SDK**, reducing manual verification time by **40%** and increasing new user sign-ups by **25%**, boosting revenue.
- Engineered a **backend-controlled tooltip system** using **MVVM (Model-View-ViewModel)** architecture, reducing **code redundancy by 30%**, enhancing maintainability.
- Launched a **rating feature** focusing on **user experience**, resulting in a **25% surge** in user engagement and a **10% boost** in overall app ratings.

## PROJECTS

**ExitPro** | *XML, Kotlin, Node.js, Express.js, MongoDB*

📱: [Play store](#) in: [Demo-Video](#) 🐙: [Android](#) 🐙: [Back-end](#)

- Automated student entry and exit logging using **barcode-based logging**, boosting efficiency by **70%** and reducing wait times by **50%**, Applied **Retrofit** for API fetching and **RecyclerView** for log display.
- Secured entries and exits, preventing unauthorized access, **Fingerprint authentication** increased accuracy to **95%**, and the **OTP based authentication** system reduced unauthorized attempts by **80%**.
- Developed a **Node.js** and **Express.js** back-end with a **MongoDB Atlas** database, utilizing **Mongoose** for efficient data manipulation, **reducing data access time by 30%**, Implemented modular, clean code with standard naming conventions, **cutting debugging time by 40%** thereby enhancing maintainability.

**Leafify App** | *Java, XML, Android Studio, TensorFlow*

🐙: [github.com/sayak22/leafify/](https://github.com/sayak22/leafify/)

- Engineered a Java-based Android app for leaf health classification (Healthy & Diseased) with an **accuracy of 95%**.
- Optimized **TensorFlow Lite** usage, reducing prediction latency by **20%** and improving overall application responsiveness.
- Upgraded features, **increasing user satisfaction by 30%** for capturing or uploading leaf photos and efficient health predictions.

## TECHNICAL SKILLS

**Languages:**

C, C++, Kotlin, Java, SQL, XML.

**Relevant Coursework**

Data Structures and Algorithms (DSA), Database Management Systems (DBMS), Operating Systems (OS), Object-Oriented Programming (OOP).

**Technologies & Frameworks:**

Android Studio, Android Debugger, Firebase, Postman, Linux, GitHub, Git, REST API, JSON.

**Android:**

Android SDK, MVVM, Coroutines, Retrofit, View Binding, Data Binding, Room Database, Live Data, Android UI components.

**Soft Skills**

Effective Planning, Teamwork, Communication, Leadership.

**Coding Profiles:**

[CodeChef](#) Highest rating:1732, 250+ questions solved on [GeeksForGeeks](#) and [LeetCode](#).

## ACHIEVEMENTS

- Secured **Global Rank 3449** among 10K+ participants in **Google HashCode 2022** [[Certificate](#)].
- Winner** of the inter-branch football tournament, **Yalgaar 22'**.
- Finalist in **Technizibition** at **Cognizance 2021**, the tech fest of **IIT Roorkee**, among 150+ participants [[Certificate](#)].

## LEADERSHIP EXPERIENCE

- Founded** and **led** the sports club of **IIIT Una**, **Zenith**, overseeing activities of 10+ sports. **September 2023 - Present**
- Endorsed 5+ **Microsoft** tech products as a student learn ambassador.[[Certificate](#)] **July 2022 - June 2023**
- Directed** **IIIT Una's** event club, **EPMOC** as a **secretary**, organising 5+ new events. **December 2021 - October 2022**
- Coordinated 10+ seminars and workshops as a **GeeksForGeeks** campus ambassador. [[Certificate](#)] **June 2021 - May 2022**
- Mentored** 5+ students in **Android Development** at **SkillAbhidhuya**, an event hosted by the **FORCE** club, **IIIT Una**.
- Captained** the institute football team of **IIIT Una** at the **6th inter-IIIT sports meet 24'**.