

# Sayak Mondal

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## EDUCATION

**Indian Institute Of Information Technology (IIIT), Una**  
*Bachelor of Technology, Computer Science and Engineering*

Una, Himachal Pradesh, India  
*December 2020 - June 2024*

## WORK EXPERIENCE

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

May 2024 - July 2024

- Implemented **AWS Lambda** functions to handle vendor details from the client-side front-end, enabling the **authentication of AADHAR, PAN, and GST** information through **Signzy services** for **15+ clients**.
- Designed a secure storage solution for authenticated vendor data in **AWS S3 buckets**, maintaining data integrity and meeting security standards, **reducing data breaches by 20%**.

### 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, JavaScript, Python.

**Database:** SQL, MongoDB (NoSQL).

**Android:** Android SDK, XML, MVVM, Co-routines, Retrofit, View Binding, Data Binding, Room DB, Live Data, Dagger2/Hilt, Android UI components, JSON.

**Developer Tools:** Android Studio, VS Code, Firebase, AWS, Postman, Linux, GitHub, Git.

**Relevant Coursework:** DSA, DBMS, OS, OOP.

**Coding Profiles:** [CodeChef](#) Highest rating: 1732, 300+ questions solved on [GeeksForGeeks](#) and [LeetCode](#).

## ACHIEVEMENTS

- Secured **Global Rank 3449** among 10K+ participants in **Google HashCode 2022** [\[Certificate\]](#).
- Published** 1 app(s) on the **Play Store** [\[Play Store developer profile\]](#).
- 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 20 22**
- 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'**.