

# 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

<b>Languages:</b>	C, C++, Python, JavaScript, Kotlin, Java, Node.js, Express.js, MongoDB (NoSQL), SQL.
<b>Relevant Coursework</b>	Data Structures and Algorithms (DSA), Database Management Systems (DBMS), Operating Systems (OS), Object-Oriented Programming (OOP).
<b>Technologies &amp; Frameworks:</b>	VS Code, Firebase, RESTful API, AWS (S3, Lambda, cloud9, CodeCommit), Postman, Linux, GitHub, Git, CRUD operations, Shell Scripting, Agile.
<b>Android:</b>	Android SDK, MVVM, Coroutines, Retrofit, View Binding, Room Database, Live Data.
<b>Coding Profiles:</b>	<a href="#">CodeChef</a> Highest rating:1732, 250+ questions solved on <a href="#">GeeksForGeeks</a> and <a href="#">LeetCode</a> .

## 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'**.