Sk Sahil Islam

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SKILLS

- **Languages:** Kotlin, C++, Python, Java, JavaScript, Go (Golang), SQL, HTML, CSS

- **Technologies:** MongoDB, MySQL, Firebase, REST API, Git, Cloud Computing (AWS)

- **Tools and Frameworks:** Jetpack Compose, Node.js, Express, Retrofit, Hilt, Coil, Paging 3, RoomDB, DataStore, TensorFlow/Keras, Django, MVVM

PROJECTS

LeafyWalls – Wallpaper App   *February 2023 to March 2024*
- Integrated **Unsplash API** and **Firebase Auth** (Google, Facebook, Email logins), achieving 95%+ login success rate.
- Introduced RoomDB for local storage, to save liked images, leading to a 30% improvement in app load times.
- **Technologies used**: Jetpack Compose, Firebase, Retrofit, Hilt, Coil, Paging 3, RoomDB, DataStore

MindSync – ADHD Detection via MRI (Android + AI)   *February 2024 to May 2024*
- Created and trained a **Conv3D-LSTM model** using **TensorFlow/Keras** with over 1,000 annotated scans, achieving 82% validation accuracy to detect ADHD from 3D MRI scans in NIfTI (.nii) format.
- Optimized **Django REST API**, reducing data retrieval time by 35% and seamlessly integrating with the Android frontend.
- **Technologies Used:** Python, Kotlin, TensorFlow/Keras, Conv3D, LSTM, Django, Android, XML

EXPERIENCE

Tech and Research Member, Fintech Club   *January 2024 to Present*
- Researched and documented the **UPI payment flow**, including PSP, VPA, NPCI backend, and bank integration, used as a reference for 2 fintech prototypes.
- Spearheaded a **QR-based Android verification system**, cutting down entry fraud by **90%**, with data stored in **MongoDB**.
- Built a Python tool to auto-generate and email certificates from Excel input, saving over **30+ man-hours per event** and automating the dispatch of **100+ personalized emails**.

Lead Android Developer, SwapGo App   *November 2024 to Present*
- Led full-cycle Android development of an e-commerce app using **Jetpack Compose**, **MVVM**, **Hilt**, and **Retrofit**, contributing to a 45% increase in app retention rate.
- Built backend using **MongoDB**, managing over **5,000+ SKUs** and **10,000+ user profiles**, with real-time synchronization.
- Developed and optimized key functionalities including **wishlists**, **product filtering**, and **offline cart support** with **RoomDB** and **DataStore**, reducing user complaints by 60%.
- Integrated **secure payment gateways**, resulting in a 99.5% success rate in transaction completions.
- Coordinated with a cross-functional team of 5 developers, improving feature rollout speed by 40%.

CERTIFICATIONS & ACHIEVEMENTS

- CS50's Introduction to Computer Science, Harvard CS50, July 2023
- Cloud Computing by IIT Kharagpur - Silver Elite Certificate, May 2024
- Google UX Design Professional Certificate by Google, June 2024

EDUCATION

Vellore Institute of Technology, Bhopal – *B.Tech CSE Core - CGPA 8.78*   *August 2022 to Present*
Assembly of God Church, Purulia - *Class 12th Certificate Science – 87%*   *July 2021*
DSK DAV School, Purulia - *Class 10th – 92%*   *July 2020*