

## Work Experience

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### Senior Engineer at Samsung R&D Institute India – Bangalore (Aug 2023 – Present)

- **Developed XR Controller Framework**, a native C++ project and integrated with an Android app for **XR Controller**, an accessory for **Samsung VST device**.
- Ensured seamless communication between C++ and a **Kotlin** application using **Java Native Interface (JNI)**. Also contributed to the development of the **Kotlin** app.
- **Optimized CPU utilization**, enhancing **performance and power efficiency** using **Perfetto** tool.
- Developed automation scripts using **Python & Shell Scripting** to reduce manual effort and improving efficiency.

### Intern at Samsung R&D Institute India – Bangalore (Jun 2022 - Aug 2022)

- Worked as a **back end developer** using **Node JS** and **JavaScript**.

## Awards and Achievements

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- **Successfully cleared AI-Core, AI-Ready tests on Workera** (covering **Mathematics, Probability & Statistics, Prompt Engineering, Deep Learning, Machine Learning**).
- Received **Samsung Super Tech Award** for **XR Controller Framework commercialization**.
- **Successfully cleared Samsung Software Competency (SWC) Professional Test** involving complex DSA questions.
- Solved over 1000+ problems on **Leetcode** and **GeeksForGeeks**.

## Projects

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- **FACE RECOGNITION MODEL** | *Python, YoloV4, CNN, Deep Learning* [\[LINK\]](#)  
- **Developed and deployed** a deep learning-based face recognition model using **Convolutional Neural Networks (CNN)**, **Darknet** framework and **Yolov4**.
- **WECHAT** | *HTML, CSS, ExpressJS, NodeJS, Socket* [\[LINK\]](#)  
- Developed a **real-time chat application** supporting multiple clients across different chat rooms where users can **send text messages** and **share images** with notification when user joins/leaves.

## Education

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**Jadavpur University (2020 – 2023)**

Master of Computer Application, *GPA: 8.88*

**Calcutta University (2017 – 2020)**

BSc (Hons) Mathematics, *Percentage: 78%*

## Technical Skills

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**Languages:** Python, Kotlin, Java, C++, JavaScript, HTML, CSS, SQL, MongoDB

**Technologies/Frameworks/Libraries:** Machine Learning, Node, React, Android Development, Spring Boot, Git, Jenkins, REST APIs