

Aarsh Chaurasia

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Skills

- C# | .NET | Java | JavaScript | Python | C++ | C | PHP | DBMS | Kotlin | REST APIs | Firebase | Networking | MongoDB | jQuery | Git
- GCP | Cloud Computing | Docker | AWS | Cryptography | Digital Forensics | Ethical Hacking | Vulnerability Assessment | Machine Learning
- Problem Solving | Leadership | Android Native Development | Intermediate DSA | English, Hindi- *All professional proficiency or above*

Experience

Software Development And Testing Intern

Login2Xplore

09/2024 - Current

- Worked on the **Pluggable API** feature which led to a **30% decrease** in time to add new features tailored to clients' needs.
- Worked on the **XArray Pool** feature which lead to a **22% decrease** in downtime and **34% increase** in efficiency of data storage for the company's JSONPowerDB product

Founder

Okynus Tech

02/2024 - Current

- Developed a new state of the art encryption algorithm which has reduced average local **video encryption time by 30%**
- Turned the developed algorithm into **POC** while also applying for **IPR** and gained interests from investors.
- Incubated under **SSIP 2.0** Government of Gujarat

Summer Research Intern

Florida International
University

06/2024 - 09/2024

- I **co-authored** a research paper titled: Navigating the Encryption Frontier: A Comprehensive Approach to Mobile Device Forensics Using Dynamic Analysis, AI, and Cloud Based Techniques.

Data Analytics Intern

CM Office Gujarat

11/2024 - 12/2024

- **Analyzed real data** from the state of Gujarat to identify anomalies, resulting in significant improvements in detecting and addressing fraudulent activities.

Graphic Designer And Video Editor

Freelance

11/2020 - 08/2021

- Collaborated with **10 clients**, including 7 Indian and 3 international content creators, delivering customized **visual and video content** tailored to their unique needs.

Projects

Secure Authentication Through Behavioural Metrics

- Built a biometric authentication system using keystroke dynamics with an ensemble voting classifier (SVM, KNN, Random Forest) achieving **95% accuracy** and **<5% false positive rate**. Implemented a dynamic threshold mechanism to enhance adaptability and reduce user rejection

StudySync - Academic Productivity Android Application

- StudySync is a feature rich Android app designed to streamline academic workflows, offering secure login, real time chat, organized notes, and quick access to papers and news. Developed with Java in Android Studio, StudySync has already gained **200 downloads** and boasts a **85% user satisfaction** rating (in pilot), enhancing productivity for students.

Education

B.Tech-M.Tech

National Forensic Sciences University

Gandhinagar,GJ 08/2022 - 07/2026

- Computer Science Engineering with Cyber Security • CGPA: 9.44 • NFSU Admission Test **Rank 3**

Activities

- **Google Developers Student Club**: Served as the lead for the club and successfully completed all the campaigns (06/2023 - 06/2024)

Others

- **Finalist (UptoSkills Startup-a-thon)**: Achieved recognition as finalists with our startup, Okynus, among teams from 150+ universities.
- **Winner And Podium Finish**: In Multiple Hackathon's And CTF's (Capture The Flag)