# Kaif Imranuddin Munshi

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## Professional Profile

Highly driven Computer Science Engineering student with practical experience in RESTful APIs, IoT integrations, cloud-based infrastructures, and version control using Git. Proficient in Python, Flask, and AWS, leveraging machine learning algorithms to improve operational efficiency by up to 30% and real-time accuracy by 40%. Skilled at translating complex requirements into secure, scalable solutions while collaborating with cross-functional teams in Agile environments. Committed to enhancing user experience, streamlining processes, and consistently delivering measurable, high-impact results.

## Skills

- **Languages:** Python, Java, C, PHP, JavaScript
- **Web:** HTML, CSS, Apache, PHPMyAdmin
- **Frameworks & Tools:** Flask, Selenium, BeautifulSoup, Git (Version Control), CI/CD, MATLAB
- **IoT & Hardware:** Arduino IDE, NodeMCU, ESP8266, Arduino Cloud
- **APIs & Microservices:** RESTful APIs, gRPC, JSON, XML
- **Cloud:** AWS (EC2, S3, Lambda), IaaS, PaaS, SaaS
- **Databases:** MySQL, SQLite
- **Machine Learning:** Image Processing, Data Structures, Algorithms
- **Methodologies:** Agile (Scrum), Test-Driven Development (TDD)

## Work Experience

**Research Intern, Nirma University**                                    *May 2024 – July 2024*

- Engineered a facial recognition and liveness detection solution using Python and ML frameworks, reducing unauthorized access attempts by 30%.
- Optimized TensorFlow-based models on Raspberry Pi, elevating real-time classification accuracy by 40%.
- Collaborated with a cross-functional team of four, employing Git for version control, daily stand-ups, and sprint planning to meet Agile delivery milestones.
- Strengthened data security and deployment pipelines, ensuring reliable system performance and minimal downtime.
- Technologies: Python, TensorFlow, Raspberry Pi, Git, Agile (Scrum)

## Projects

**Tour Management Website**                                    *(PHP, SQL, HTML, CSS, JS, Apache)*

- Developed a PHP-driven platform integrating Razorpay's gateway, safely processing 100+ daily transactions.
- Refined booking workflows and database queries in MySQL, shortening checkout duration by 20%.

**Home Automation System** *(NodeMCU, ESP8266, Arduino Cloud, Blynk IoT)*

- Deployed an IoT ecosystem compatible with Google Home, curtailing manual operations by 20%.
- Applied encryption and stability optimizations, achieving a 99% device uptime rate.

**Warehouse Management System** *(Python, Flask, SQLite, HTML, CSS, JS)*

- Crafted a Flask-based inventory tracker, eliminating 15+ hours of manual stock checks each week.
- Incorporated RESTful APIs and stringent input validation, boosting data accuracy by 25%.

**Automated Web Scraping (Medicine Data)** *(Python, Selenium, BeautifulSoup)*

- Extracted and organized 10,000+ product entries automatically, slashing research time by 90%.
- Incorporated robust error handling, ensuring 98% data reliability and integrity.

**IoT-Based Attendance System** *(NodeMCU, RFID, ESP8266)*

- Launched an RFID-enabled attendance platform, increasing record-keeping efficiency by 25%.
- Enabled real-time data visibility, aiding swift decision-making and administrative responsiveness.

**Image Steganography Tool** *(Python)*

- Devised an LSB-based data-embedding algorithm, elevating the confidentiality of sensitive information.
- Ensured versatility by supporting multiple image formats, enhancing adaptability.

## Education

**B.Tech in Computer Science and Engineering, Nirma University** *Expected 2025*
CGPA: 7.42/10
**Diploma in Information Technology, LJ Polytechnic** *2022*
CGPA: 9.54/10
**10th Grade, Som-Lalit School (GSEB)** *2019*
Percentage: 64.5%

## Certifications

- AWS Academy Graduate: Cloud Computing (97.5%)
- Arduino Platform & C Programming: Advanced IoT Projects (97.5%)
- Python Data Structures: Algorithmic Skills (96.8%)
- Programming for Everybody: Python Foundations (98.25%)
- FLY Scholar Program: Leadership by CMI, USA

## Awards & Achievements

- Claimed 1st place at Nirma University's IoT-centric Hackathon, outperforming 20+ competing teams.
- Recognized as a "Top Innovator" at the 2023 college showcase for delivering advanced, high-impact technical solutions.

## Volunteer Experience

- Mentored over 50 children at a local orphanage in STEM-related activities, nurturing critical thinking and problem-solving capabilities.

## Additional Information

- Actively exploring emerging technologies, participating in competitive programming, and engaging in collaborative team sports.