

# MOHAMMED FAZIL ADAM BASHA

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My Portfolio: <https://mohfaz.netlify.app/>

## SUMMARY OF SKILLS AND QUALIFICATIONS

**Operating Systems:** Kali Linux, Windows 11, Linux, Unix, macOS, Mobile OS

**Applications:** Firewalls, Anti-malware, Android Studio, McAfee, Microsoft Office (Word, Excel, PowerPoint, Access, Project)

**Programming Languages:** LabVIEW, TestStand, Embedded C, C#, Python, HTML, CSS

**Platforms:** VMware, Kali Linux, PyCharm

**Methodologies:** Penetration Testing, Vulnerability Scanning, ASPICE V-Model, Quality Assurance

**Tools and Technologies:** Blender 3D, GitHub, Adobe Photoshop, 3D Modeling

**Languages:** English (Fluent), French (Intermediate – Spoken and Written), Tamil (Fluent), Hindi (Fluent), Urdu (Fluent)

**Certifications:** Cisco Cyber Threat Management, IBM Embedded Systems Certificate

**Note:** Available for Fall 2025 internships

## EDUCATION

### Master of Engineering – Information Systems Security

Concordia University, Montreal, QC

Expected Graduation: June 2026

- Director of the Graduate Student Association
- Member of the Institute for Co-operative Education
- Relevant Courses: Operating Systems Security, Advanced Cryptography, Cybercrime Investigation

### Bachelor of Engineering – Electronics and Communication Engineering

Anna University, India

2019 – 2023

- Director, Student Association
- Relevant Courses: System Physical Security, Network Security, Python Programming, Computer Engineering

## PUBLICATIONS

### Emerging High-Depth Signal Tactile Sensing Technology for Achieving Artificial Human Touch

Brighter Signals B.V., Published in IEEE SENSORS 2025 Conference Proceedings, Vancouver, Canada | July 2025

- Co-authored pioneering research introducing novel high-depth tactile sensors, significantly advancing the field of artificial tactile sensing and human-like touch perception.
- The innovative textile semi-conductive technology enables Active-Dynamic and Multi-Modal sensing, revolutionizing tactile sensor design.
- Published findings recognized for substantial impact on automation, robotics, automotive, and IoT fields.

### Core Competencies:

Emerging Technology, Tactile Sensing, Robotics, IoT, Automation, Embedded Systems, Research & Development.

## PROJECTS

### MARFCAT – Fast Code Analysis for Defects and Vulnerabilities

Concordia University, Montreal, QC | 2024 – Present

- Led a 5-person team in a cybercrime investigation project using MARFCAT, focusing on static code analysis and malware detection.
- Identified malicious file patterns and enhanced cybersecurity protocols to strengthen overall system security.
- Project received top academic recognition for its contribution to cyber threat intelligence.
- Core Competencies: Forensic Analysis, Malware Detection, Cybersecurity Protocols

## PROFESSIONAL EXPERIENCE

### Embedded Systems & Security Engineering Intern

*Studio1Labs/Brighter Signals B.V., Montreal, QC | May 2025 – Aug 2025 (Expected)*

- Developed low-level firmware in C/C++ for ARM Cortex-M microcontrollers and integrated real-time sensor data with Qt/Android GUIs.
- Designed edge-computing logic and implemented communication protocols (SPI, I2C, UART, BLE) for efficient embedded performance.
- Performed hardware debugging using oscilloscopes, logic analyzers, and embedded test frameworks to ensure system stability.

### Software Engineer

*TestBase Solutions, India | Mar 2023 – Feb 2024*

- Engineered advanced network solutions for wireless EV charging, improving system efficiency by 70% using ground-based transmission technology.
- Led system design and performed rigorous testing using National Instruments LabVIEW and NI TestStand, ensuring compliance with AUTOSAR standards.
- Integrated CAN and UDS communication protocols, increasing data transmission reliability by 68%.
- Core Competencies: Network Protocols, Embedded Security, LabVIEW, CAN, UDS, AUTOSAR

### Network Security Analyst Intern

*CBTS, India | Nov 2022 – Feb 2023*

- Configured and managed enterprise-level firewalls, IDS/IPS, and VPN systems to secure and streamline network operations.
- Monitored and analyzed network traffic using Splunk to detect and mitigate potential threats.
- Conducted comprehensive audits and maintained documentation to ensure compliance with ISO 27001 and GDPR standards.
- Implemented cloud security controls and DevSecOps practices across CI/CD pipelines, enhancing system resilience and integrity.

Core Competencies: Network Security, Splunk, Firewalls, ISO 27001, GDPR, Cloud Security, CI/CD

## PROFESSIONAL EXPERIENCE (PART-TIME)

### Exam Invigilator

*Concordia University, Montreal, QC | Oct 2024 – Present*

- Supervised in-person exam sessions, ensuring a secure, fair, and distraction-free environment for all students.
- Performed identity verification, managed exam material distribution and collection, and enforced academic policies.
- Provided procedural instructions and reported irregularities to exam coordinators in a timely manner

### Package Handler

*FedEx Canada, Montreal, QC | Nov 2024 – Present*

- Managed timely sorting and handling of packages in a high-volume logistics environment.
- Ensured safety and operational efficiency under tight deadlines.
- Demonstrated teamwork, punctuality, and adherence to organizational standards.

## AWARDS & DISTINCTIONS

- Stress Interview Winner – College Level
- Green Man Award – Recognized by *Walk for Plastic* NGO for environmental initiative

## INTERESTS

- Reading: Novels, Comics
- Sports: Athletics, Cricket, E-sports
- Passions: Programming, Network Security, Embedded Development, Mobile App Development