



Numair Fahad's Resume

Contact Information

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Summary

Motivated Computer Science student at NUTECH pursuing a Bachelor's degree in Computer Science with a focus on Cybersecurity, Digital Forensics, and Network Security. Possesses hands-on experience with Linux, Wireshark, Cisco Networking, TCP/IP protocols, VPN implementation, malware analysis, and network traffic investigation through academic projects and research. Strong foundation in information security principles, digital evidence analysis, and secure system design. Seeking a Digital Forensics Internship at CERT Pakistan to further develop practical cybersecurity skills and contribute to real-world security operations and investigations.

Skills

Programming Languages:

- Java
- Python
- JavaScript (JS/JSX)
- C/C++
- Visual Basic (VB)
- Assembly Program (RISC V & EMU8086)

Backend Development:

- Node.js
- Express.js
- NodeMailer
- REST APIs
- socket.IO
- JWT Authentication
- Multer
- Bcrypt.js
- OpenAI API
- Axios
- Google Gemini API
- npm
- Node Version Manager (NVM)

AI, Machine Learning & Data Analytics:

- Scikit-Learn (sklearn)
- Pandas
- Matplotlib
- XGBoost
- OpenCV
- NumPy
- Seaborn

DevOps, Cloud & Automation:

- Docker
- Kubernetes
- n8n (still learning)
- Cloudinary

Databases:

- MS Access
- SQL Server
- MongoDB (Atlas Cloud + Compass)

Frontend Development:

- React.js
- Redux Toolkit
- HTML5
- CSS3
- Tailwind CSS
- socket.IO Client
- Axios

Operating Systems and Virtualization:

- Linux
- Ubuntu
- Windows 10/11
- macOS
- Windows Server 2019/2022
- Kali Linux
- VMware
- VirtualBox

Networking & Cybersecurity:

- Cisco Packet Tracer
- Wireshark
- TCP/IP Protocol Suite
- Nmap (network scanning techniques)
- tcpdump
- OWASP ZAP (ZAP Proxy) & Juice Shop
- rkhunter
- Autopsy
- ChromeCacheView
- ChromeHistoryView
- DumpIt.exe

- WSL (Windows Subsystem for Linux)
- Cloudflare WARP
- Microsoft Azure

Version Control & Collaboration:

- Git
- GitHub
- GitLab

Embedded Systems & Hardware Design:

- Arduino IDE
- Proteus
- ESP8266 NodeMCU

Documentation, Technical Writing & Productivity:

- LaTeX
- MS Word
- Adobe Acrobat PDF
- Canva
- CapCut
- Microsoft Office Suite

Game Development & Graphics Programming:

- SFML (Simple and Fast Multimedia Library)

Experience

Full MERN Stack Developer (Intern) | DawoodTech NextGen (Remote), PWD, PK | April 2026 – June 2026

- Developed responsive and interactive **frontend interfaces** using *React.js*, *Redux Toolkit*, *Tailwind CSS*, *HTML5*, *CSS3*, and *JavaScript*.
- Built and integrated **RESTful APIs** using *Node.js* and *Express.js* to support authentication, dashboards, job management, resume uploads, and application workflows.
- Implemented **secure user authentication** and **role-based authorization** using *JWT*, *Bcrypt.js*, and **protected routes**.
- Designed and managed **MongoDB** databases with **CRUD** operations, **schema relationships**, **validation**, and **data seeding** for realistic demo workflows.
- Integrated **file upload functionality** using *Multer* and *Cloudinary* for resume documents and user profile photos.
- Built **real-time notification features** using *Socket.IO* to improve user interaction and application status tracking.
- Integrated **AI-powered features** for resume review and job description generation using *Gemini/OpenAI-compatible APIs*.
- Deployed the **frontend of all web apps** on *Vercel* and the **backend** on *Railway*, *Vercel*, and *Microsoft Azure App Service* with **production environment variables** and **CORS** configuration.

- Used **Git** and **GitHub** for **version control and collaboration**, **repository management**, **deployment workflow**, and **project documentation**.
- Tested (both locally and globally during deployment), debugged, optimized, and documented the application to improve reliability, usability, and overall user experience.

Data Processor & Programmer (Intern) | Health and Psychiatry Services (On-Site), Tampa, FL, US | Aug 2024 – Jul 2025

- Managed and processed large datasets while maintaining data accuracy and integrity.
- Generated reports and organized operational data to support business and administrative functions.
- Analyzed data records, identified inconsistencies, and implemented corrective actions.
- Assisted with compliance-related documentation and recorded management processes.
- Applied analytical and problem-solving skills to improve data processing workflows.
- Collaborated with cross-functional teams to ensure efficient handling of organizational information.

Education

- **O-level/IGCSE in Computer Science** | Beaconhouse Potohar Campus (BPC), Rawalpindi | 2018 - June 2020
- **GCE AS & A Level in Computer Science** | Beaconhouse Karakoram Campus (BKC), Islamabad | 2020 - June 2022
- **Bachelor of Science in Computer Science** | Bahria University (BU) E-8 Campus, Islamabad | Sep 2022 - Sep 2023
- **Associate of Arts (AA) in Computer Science** | Hillsborough Community College (HCC) Dale Mabry Campus, Tampa | Aug 2023 - Dec 2024
- **Bachelor of Science in Computer Science** | University of South Florida (USF), Tampa | Jan 2025 - May 2025
- **Bachelor of Science in Computer Science** | National University of Technology (NUTECH), Islamabad

Projects

- **SmartHire AI - Job Portal and Internship Management System:**

Developed a **full-stack MERN web application** with **JWT authentication**, **role-based dashboards for students, recruiters, and admins**, **job/internship posting**, **profile photo** and

resume uploads using *Multer*, application tracking, AI resume review, AI job description generation, real-time notifications using *Socket.IO*, *Cloudinary* file storage, *Nodemailer* email alerts, *MongoDB Atlas* (cloud database) integration, and deployment on *Vercel* (frontend) and *Microsoft Azure App Service* (backend).

- **GitHub:** github.com/numair-2003/smartHireAI_JobPortal_InternshipManagementSystem
- **Live Demo:** smart-hire-ai-job-portal-internship.vercel.app

- **AI-Enhanced Mini VPN Security & Performance for Secure Communication:**

- Developed an **AI-based cybersecurity mini project** with **4 group members** in the *National University of Technology*, tested it on *VS Code*, and deployed it on *Jupyter Notebook* to enhance *Mini VPN* security through **encrypted traffic classification**, **anomaly detection concepts**, and **performance-aware traffic analysis**.
- Built a **machine learning workflow** using the *ISCX VPN-nonVPN* dataset, including **preprocessing**, **feature scaling**, **train/validation/test splitting**, *Random Forest* baseline modeling, *SMOTE/PCA* optimization, and *XGBoost* comparison.
- Evaluated **models** using **accuracy**, **precision**, **recall**, **F1-score**, **ROC-AUC**, **feature importance**, and **inference time**; achieved up to **98.63% test accuracy** with *Random Forest* and recommended *XGBoost* for **faster real-time VPN gateway inference**.
- Researched **privacy-preserving VPN traffic analysis** using **metadata-only features** such as **packet size**, **duration**, **timing**, **direction**, and **flow statistics** without inspecting **packet payloads**.
- Implemented a simplified *client-server VPN model* with **encryption**, **tunneling**, and **authentication** using *Linux*, *OpenVPN/SSH Tunneling*, *OpenSSL*, and *Wireshark* on *Ubuntu*.
- Tested **encrypted traffic** to analyze protection against *packet sniffing*, *man-in-the-middle attacks*, and *unauthorized access*.

- **Smart Airport Network System:**

- Designed and simulated a **smart airport network system** in *Cisco Packet Tracer* with **3 group members** at *National University of Technology* using a **hybrid topology** with **wired Ethernet LANs** and **IEEE 802.11 wireless connectivity**.
- Configured *Cisco 2960* switches, *2811* routers, a *WRT300N* wireless router, **static IP addressing**, *DHCP*, *NAT/gateway routing*, and *WPA2-Personal* wireless security.
- Implemented **Layer 2 switching** and **Layer 3 routing** across separate **wired**, **wireless**, and **router-link** subnets, including **192.168.1.x**, **192.168.0.x**, and **192.168.2.x** networks.
- Verified **connectivity** through *Packet Tracer* **simulation mode** and **ping testing**, demonstrating **packet switching**, **MAC forwarding**, **full-duplex Ethernet**, **physical cabling**

choices, and network segmentation.

- **Campus Event Registration & Ticketing System:**

- Developed a **hybrid C++ and Python desktop application**, tested and executed it on **VS Code** to automate campus event registration, ticket generation, participant management, and walk-in queue handling.
- Built the **C++ backend** using **core DSA concepts** including a **singly linked list** for **event storage**, **Binary Search Tree** for **fast event lookup**, **FIFO queue** for **walk-in registrations**, and **selection sort** for **date-based event sorting**.
- Integrated **SQLite3** for **persistent storage with Events and Participants tables**, enabling saved event records, participant registrations, ticket numbers, and reloadable data across sessions.
- Designed a **CustomTkinter** dashboard that **communicates with the C++ executable through subprocess commands**, allowing users to add/delete events, register/cancel participants, search events, sort records, and process walk-ins.

- **Typing Tutor for Novice:**

- Developed a **desktop typing tutor game** in **C++** using **SFML** on **Microsoft Visual Studio 2022**, designed to help beginners improve their keyboard speeds and accuracy through **interactive falling-alphabet gameplay**.
- Implemented an **object-oriented structure** with **separate classes for MainMenu, LoginPage, GameLevel, and CreditPage**, supported by a **UML class diagram**.
- Built a **graphical interface** with a **main menu, login/sign-up screen, gameplay window, score tracking, credits page, background images, music, and sound effects**.
- Added **file-based user registration/login, real-time keyboard input handling, random alphabet generation, scoring logic, missed-key penalties, and game-over behavior**.

- **IoT-Based Obstacle Avoiding Robotic Car:**

- Designed and documented an **obstacle avoiding robotic car concept** using **ultrasonic sensing** and **microcontroller-based decision logic**.
- Worked with **ESP8266 NodeMCU, GPIO pins, LEDs, resistors, breadboard wiring, and Arduino IDE** for **embedded circuit control**.
- Created an **IoT-style local web server interface** to control hardware outputs through **browser/mobile requests**.
- Applied **digital logic** and **embedded systems concepts** including **sensor input processing, signal control, circuit planning, IP-based communication, and prototype testing**.

Certifications

- Cisco Networking Academy
- W3Schools
- geeksforgeeks
- **Master n8n AI Agents: Build & Sell AI Agents and Automations** – Udemy
- **Computer Programming for Everyone** – FutureLearn – University of Leeds
- **Learn to Code for the Web** – FutureLearn – University of Leeds
- **Creating a Great User Experience for Mobile Apps** – FutureLearn – University of Leeds
- **Robotic Future** – FutureLearn – University of Sheffield

Awards and Honors

- Hillsborough Community College's Dean's list
- Phi Theta Kappa (PTK)
- Tau Sigma National Honor Society

Languages

- Urdu (Native)
- English (Fluent)
- Punjabi (Native)