# Muhammad Zain

## Software Engineering Student

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## SUMMARY

Motivated and detail-oriented final year software engineering student possessing hands-on experience in Android Development, .NET development, Machine Learning, and strong foundational knowledge in Cybersecurity, I am passionate about applying my technical skills to contribute to success. Eager to learn from industry experts, and apply my adaptability and quick learning abilities in a dynamic environment.

## TOP PROJECTS

**Intelligent Cyber Attacks Detection System** – *Final Year Project*
OCTOBER 2024 – **IN PROGRESS** – github.com/mzainxo/ICADS
- Integrating anomaly-based detection (ML/DL) with Suricata IDS for better detection of sophisticated DDoS attacks.
- Development of front-end panel for monitoring and controlling packets.

**Realtime Phishing Emails Detection System** – *Web Application*
NOV 2024 – DEC 2024 – github.com/mzainxo/Phishing-email-detection-using-ML-and-NLP
- The project utilizes Python, Streamlit, Random Forest Classifier, TF-IDF Vectorizer, and NLP

**Don't Blink Game** – *Android App*
MAY 2024 – JUNE 2024 – github.com/mzainxo/Dont-Blink-Game-Android
- The project utilizes Java, Firebase Realtime Database, Android Studio, Material UI 3, Google Vision, Jira, and XML.

**Vehicle Trading System** – *Windows Forms App*
MAY 2023 – JUNE 2023 – github.com/mzainxo/VehicleTradingSystem
- The project utilizes C#, SQL Server, Windows Forms, Singleton, and Decorator Design Patterns.

**Labyrinth Maze Game (Maze Rush)** – *Windows Forms App*
JAN 2023 – FEB 2023 – github.com/mzainxo/MazeRush
- The project utilizes C#, Windows Forms, A* Algorithm, and Filing.

**Candy Crush Game (Color Mania)** – *Unity*
MAY 2022 – JUNE 2022 – github.com/mzainxo/ColorMania
- The project utilizes C#, Unity Engine 3D

**Subway Surfers Game (CUBRO)** – *Unity*
DEC 2021 – JAN 2022 – github.com/mzainxo/CUBRO-Beginner-Subway-Surfers
- The project utilizes C#, Unity Engine 3D

## EXPERIENCE

**Full Stack Developer (Internship)** – *NexinIT*
OCTOBER 2023 - NOVEMBER 2023
- Utilizing ASP.NET MVC, Entity Framework, SQL Server, HTML/CSS, jQuery, AJAX, JavaScript, Postman, MS Azure, Bootstrap, Razor, Select2, GitHub, REST API

## EDUCATION

**Bachelors of Software Engineering** – *Bahria University*
OCTOBER 2021 - JULY 2025 • 8th SEMESTER • **CGPA: 3.72**
- **Relevant Coursework:** OOP, Database Management Systems, Cloud Computing, Data Structures & Algorithms, OS, User Interaction, Natural Language Processing, Data Mining, Data Science, Mobile App Dev., Information Security, Accounting & Finance, Software Project Management, Web Engineering, Computer Networks, Design and Analysis of Algorithms, Computer Programming, Software Design & Architecture, Computer Architecture & Logic Design.

**Pre-Engineering (HSSC)** – *Aga Khan Higher Secondary School, Karachi*
AUGUST 2019 - JUNE 2021 • **Grade: A1**

**Science Group (SSC)** – *Pakistan International School, Jeddah*
OCTOBER 2016 - JULY 2025 • **Grade: A**

## SKILLS & TOOLS

- Machine Learning, Natural Language Processing.
- C#, Java, Python, C, Bash, Assembly, and SQL.
- HTML, CSS, JavaScript, and XML.
- Suricata, Tcpdump, Wireshark, VMware
- Cisco Packet Tracer
- RESTful APIs, Postman.
- GitHub.
- Jira, Trello, Documentation.
- Agile, Scrum, Lean & Kanban Methodologies.
- Risk Management.
- SPLC and SDLC.
- Leadership, Problem Solving, Teamwork, Decision Making.
- Project planning.
- Project monitoring, and control.
- Communication & Presentation.
- Incidence Response.

## CERTIFICATIONS

**IBM Application Security for Developers and DevOps Professionals** – *Coursera*
MARCH 2025

**Certified in Cybersecurity (CC)** – *ISC2*
FEBRUARY 2025 – FEBRUARY 2028

**Google Cybersecurity Professional Certificate** – *Coursera*
FEBRUARY 2024

**Japanese 5S Methodology Training** – *Toyota x UNAP*
DECEMBER 2020

## VOLUNTEERING

**Volunteer at Heatwave Relief Camps** – *FGRF*
MAY 2022