

Hamza Bashir

Computer Science Student

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<https://hamza--portfolio.herokuapp.com/portfolio/>

I am a final year student doing bachelors in computer science from Monash University. I have learnt different programming languages and algorithms during my time at Monash. I have developed skills which are important to work in a team such as critical thinking, problem solving and most important team management.

I am confident that I can provide solutions to daily software problems using efficient algorithms and data structures. I am prepared to take on great challenges and always ready to learn more.

Areas of Expertise

- Android development
- Algorithms & Data structures
- Game Development
- Flutter
- Desktop development
- Software quality & testing
- Cyber Security
- Web development
- Database Management
- Machine Learning

Technical Proficiencies

Programming Languages: Python, Java, Java script, Haskell, C#

Database: MySQL, Oracle

Network& Cyber Security: Identifying vulnerabilities in web applications such as XSS and CSRF. Identify vulnerabilities in programs such as buffer overflow. Knowledge of encryption and decryption techniques

Platforms & Tools: Git, Android Studio, Unity, Ubuntu

Education

BSc Computer Science / CGPA 3.52 / WAM 75.08

Monash University, Kualu Lumpur, Malaysia, 2022

Major: Advance Computer Science

Minor: Network & Cyber Security

Career Experience

Gunfire Game Studio

Game Developer Intern

January 2021 – April 2021

At this internship I learned game development using Unity and C#. During my time at Gunfire studio I built First Person Shooting Controller for their hunting game.

Key Research & Academic Projects

Monash Univerity

- Completed group research project based on “Opportunities for AI post-COVID-19”.
- Carried out research on possible sectors where AI will be used most.
- View our research at <https://talhahzubayer101.wixsite.com/ethicalpeople/>

Monash University

- Completed group research project based on “Investigating a security application of machine learning”
- Our research was focused on how machine learning is used for lie detection
- We compared different machine learning models based on the techniques used and concluded which model is better and why.

Personal Projects

Food delivery app

- Android application built for a restaurant in Lahore, Pakistan.
- This Application was built in Android Studio using Java. I used Firebase for the database in order to store all the orders.

Hostel Management System

- Windows application built for a hostel in Lahore, Pakistan.
- This was built using Java swing and MySQL.

Pong

- Browser game built using Type script, HTML and RxJS reactive library
- This game was built using pure functional programming

Portfolio

- Django web application built to show all of my work done in recent years.
- This was built using HTML, CSS and Python Django
- You can view my portfolio at <https://hamza--portfolio.herokuapp.com/portfolio/>

Rummy(Card game)

- Built an AI to play against other players and achieved high ranking.
- The game was built using haskell functional programming.
- This was done as a university assessment.