

Tryhackme Rank: 50
Top 1% in the world

LeetCode Rank: 82
Top 1% in the world

https://github.com/Afvanjaffer

Linkedin ID: Afvan(MJ)Moopen

BTECH IN COMP SCIENCE
WITH SPECIALIZATION
IN GAMING TECHNOLOGY AND
ADVANCED CYBER SECURITY



# **Afvan MJ** *My portfolio @ afvan.social*

#### **About Me**

I am self-learner and working confident, curious, and perpetually. I have good experience in developing software platforms for real world problems, and I am working on several communities for improving the Technical knowledge in the society. I have good leadership, organizing, And communication skills. I am a perfectionist. I want to solve the Problems in my hands in perfect ways, which is, however, not achievable in many situations.

I also apply Bellman Equation in the optimization of my life, which is a Markov decision process, but the future discount factor  $\gamma$  in the Equation might be small and I would often be trapped in local optimum

Technical Skills: C, C++, C#, ASP.Net, Java, R, Python, JavaScript, Typescript, PHP, Laravel, Lua, Lisp, Racket, Swift, GO, Ruby, RUST, Erlang, Elixir, Verilog, Prolog, Haskell, Scala, Lisp, Latex, Julia, Flutter, Dart, Kotlin, OpenShift, ROS programming, CUDA, ARM Developer(NEON), HDL and ASM,HTML, CSS, Pug, Jade, jQuery, Codelgniter, MySQL, GraphQL, Magento, Firebase Django, Celery, Matplotlib, Pytorch, Regex, flask, Vue, Bootstrap ReactJS, P5 Processing, Angular, NodeJS, MongoDB, win64 programming, Win API, Win x64 assembly language, SpringBoot, Groovy, BASH, PowerShell, WEBGL, GLSL, Three.js, Aframe, Docker, Kubernetes, Postgres, Linux/Unix Administration, ASP, IOT(development and security), AWS Developer, Blender, Maya 3ds, Maya 3ds Max, Motion graphics, Aftereffect, premierpro, Photoshop, Houdini, Autodesk, AutoCAD, Cinema 4d, Software fuzzing, AR, VR, Cryptanalysis, Vulnerability Tester, Vercel, Netlify, Now, Zsh, Deno, Git, OpenGL, OpenAL, OpenCL, OpenAl, Open CV, Hadoop, Devops, Hive, Flume-Ng, Kafka, Sqoop, A.airflow, Windows Server, Linux, Web Socket, Reverse Engineering on UNIX system

EDUCATION			
Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE)	June 2018 –Ongoing	Vellore Institute of Technology	8.4/10
Class XII	May 2018	St. Ann's HSS, Pathalam	94%
Class X	May 2016	India International, Dubai	88%

### **Certifications & Trainings**

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International Airlines Group	<ul> <li>Bug Hunter Lead (Jan 2021)</li> <li>Description: helped to improve the performance of the service provided from British Airways and other cargo services</li> </ul>
Apple and Cisco Security Training	<ul> <li>Hands workshop on Security Test and Penetration (Jan 2020)</li> <li>Description: Deep architecture on security forensics and penetration testing.</li> <li>Technology: IOS and android Forensics, Malware, Data acquisition techniques, CryptoMining</li> <li>Tools: Cellebrite Universal Forensic Extraction Device, ElcomSoft IOS forensic toolkit, Oxygen Forensic tool, Paraben iRecovery Stick, Blacklight Forensic software stick</li> </ul>
Block chain Council	Certified Block chain expert



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#### Cloud data Engineering (Jan 2020)

- Description: Data Scientist toolbox

#### Cloud Data Engineering

- -Technology: Data processing pipeline, Cloud Storage, IAM role, Cloudsql, Data Transfer services, Cloud Fire store, cloud spanner, Cloud Memory Store, Bigdata, Cloud Pubsub, Dataflow, Pipeline streaming, Managed spark with cloud dataproc, Bigtable, Bigquery, Data lab, Data studio, Cloud Composer, Cloud ML with TensorFlow, Pretrained ML cloud API's, AutoML, Operationalizing ML model, Data Security and Industrial Regulation, Data Prep
- Badge Name: Professional Data Engineer exam
- Training Platform: Google, AWS, Azure
- Google DevJam Rank: 10

#### Nvidia Jetson AI (Feb 2021)

- Description: Leveraging AI using Nvidia Jetson system.
- Technology: Jetson Al, TensorFlow, TensorRT, Pycoco, OpenPose, Pytorch -

Achievement: Jetson Al specialist, Jetson Al Ambassador

#### Nvidia





#### International Airlines Group

Sub-Domain TakeOver (Bounty Program : Hackerone)

#### \_ ...

#### Online Learning Platform (April 2021)

- Credits: 40 CPE credit
- Achievements: i) PowerShell Automation for AD (Active Directory)

#### Varonis

ii) Ethical Hacking: Session Hijacking, Web Application security, Database Security, Securing ASP.Net Website, OWASP top 10 Vulnerabilities, Social Engineering, Modern Web Security Patterns about HTTPS

- iii) Web security Review
- iv) Crafting a brand for growth and prosperity

v) Microsoft Office

365 Essential

vi) Cyber Incident Response

#### vii) GDPR attack plan

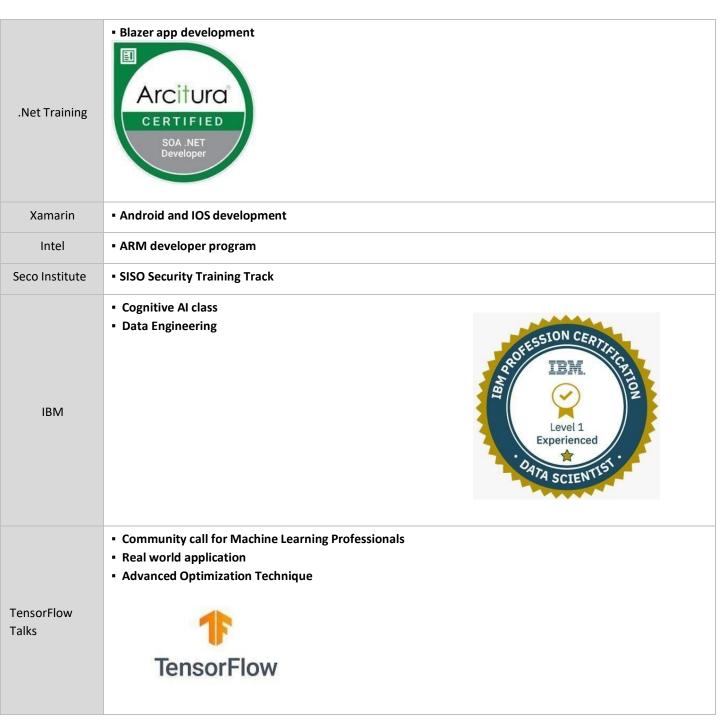
- viii) Web Security Fundamentals
- ix) Introduction to Ransomware

x) Understanding Insider Threats

- xi) Understanding MITRE attack
- xii)Internet Security Fundamentals

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Qualys Training Platform  Advanced Training Courses and Certification: i) End Point Detection and Response (EDR) —		
undation	ii) Cloud Specialist	
, ,	iv) Cloud security assessment and response	
	lvanced Training Courses and Certi undation Qualys Cloud Security Cloud agent	Qualys Cloud Security  iv) Cloud security assessment and response

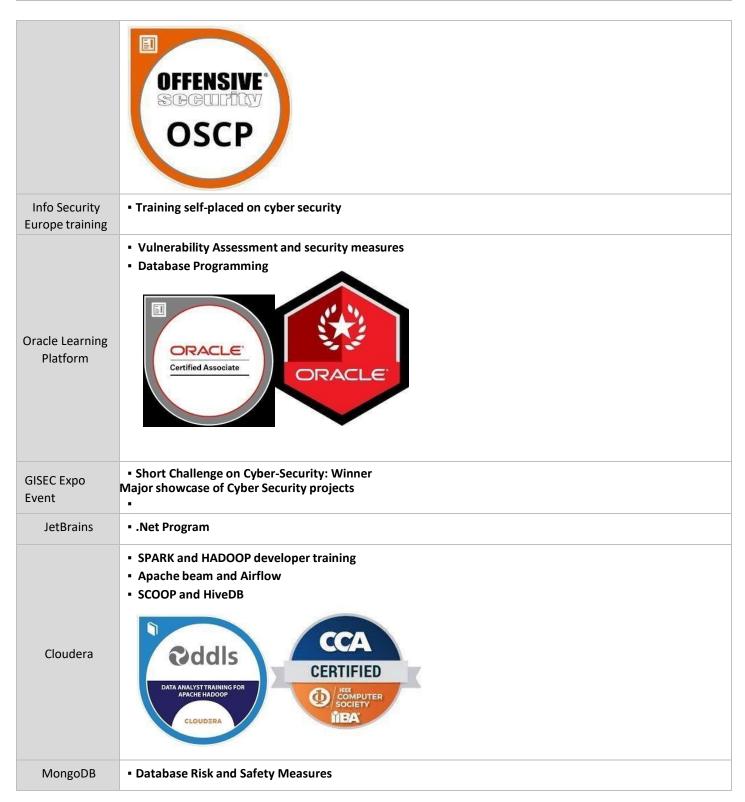


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Offensive
Security
Training

Virtual Training for SOC and SIEM



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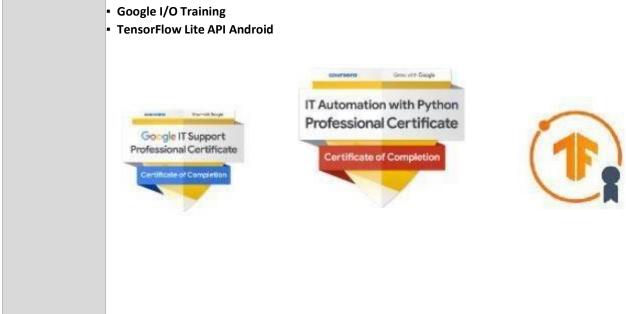
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Pluralsight

- Google developer scholarship 2021:
- Mobile Web specialist (ongoing)

- Mobile Web specialist (ongoing)

- TensorFlow Certification
- Google Analytics Training
- Google Digital Marketing Training



# University of South Africa: 1. Python Game Development (Creating bots) 2. PyGame Learning Series • University of Abu Dhabi: 1. Human Resource Capital Management - Design thinking HSE Paris - Discrete mathematics and Optimization - Automating Real World Task with Python

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Cryptopals	- All challenges completed
Huawei Learning Platform	<ul> <li>HCIA 5G Course</li> <li>Data mining HCIP</li> <li>Open cloud solution HCIP</li> <li>EPC network principle</li> <li>South Africa FTTH recon solution</li> <li>HCIE Huawei solution architect</li> <li>Cybersecurity Certification application and Security Policies (CSE)</li> <li>Small Cell Wireless Adapter</li> <li>HCIA IOT developer</li> <li>Numerous 5G test</li> <li>VDF LTE project Germany</li> </ul>
Harvard University CS50x Courses	CS50 Course:     i) Introduction to Game Development ii)     CS50x Computer Science Course     iii) Introduction to Artificial Intelligence with python
SkillFront	Certified Associate in SCRUM fundamentals (CASF)
Microsoft	<ul> <li>Azure Al fundamentals (AI-900)</li> <li>Azure Data fundamentals (DP-900)</li> <li>Microsoft Advertising Certified Professional</li> <li>Microsoft Build skills 2020</li> <li>Microsoft Ignite Cloud skills</li> </ul>

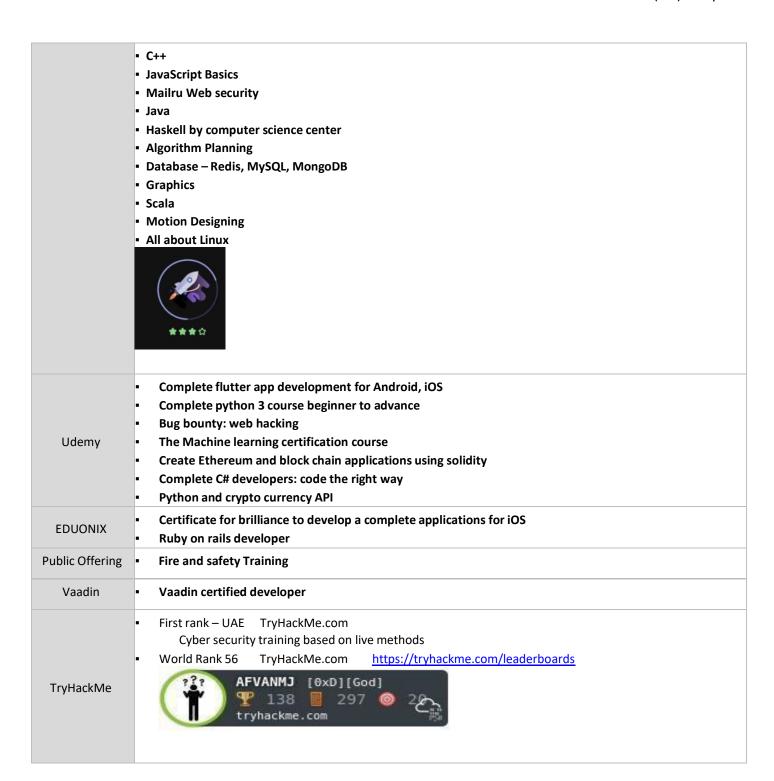


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University of Helsinki	<ul> <li>Introduction to Cyber Security</li> <li>Securing Software</li> <li>Advanced Cyber Security</li> <li>Data Analysis with Python</li> <li>Devops with Kubernetes</li> <li>Devops with Docker</li> <li>Java Programming 1</li> <li>Java Programming 2</li> <li>SpringBoot Java Programming</li> <li>Haskell</li> </ul>	
OXFORD College (Oxford)	<ul> <li>Cybersecurity</li> <li>Risk management</li> <li>Project Management</li> <li>Cybersecurity Diploma</li> </ul>	
Elements of Al	<ul> <li>Introduction to AI</li> <li>Ethics of AI</li> <li>Building AI</li> </ul>	
Cisco	<ul> <li>Certified Network Administrator (CCNA)</li> <li>Certified Devops Engineer</li> <li>Automation and cisco tools</li> </ul>	
Redis Labs	Redis certified developer training	
AWS	<ul> <li>AWS certification training for Solution Architect</li> <li>Introduction to Amazon Elastic Computer Cloud (EC2)</li> <li>S3 Storage</li> <li>Kinesis</li> </ul>	
Abu Dhabi University	<ul><li>Data Analysis</li><li>Bubble Coding</li></ul>	
Stepik	STEPIK Graduate Introduction to Linux C#	

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#### **INTERNSHIP EXPERIENCE**

Artificial intelligence professional

I was trained as an expert there, but I am more skeptical than any other scientific evangelist. I was not convinced that life science algorithm conducted with the existing research approaches at the current level of human civilization could be considered as "science". That was part Of the motivations which caused me to leave that field (Genetic root of Simple Programming that's how developed setup my interest in AI). I should be grateful that I have learned mathematics and programming well in college, and I met machine learning when I was at the lowest point of my life.

Alliance, Dubai, UAE DEEP Learning Engineer Aug. 2020 -Dec. 2020

The research and engineering interests that I showcased with them are mainly in the areas of machine Learning, artificial intelligence, general Computer science, and user-friendly software engineering. The company were persuaded with my performance as an intern, that was the time when we got an Opportunity to meet up at the address Expo for Improved Intelligence on Apple tech

ELV Alliance Technology (Cyber Wing) , Dubai , UAE

CYBER TEAM OPERATOR (Security & Processing Field) May. 2020 - July.

2020

Content and course developer supporting Defense Threat Reduction Wing of the Company Emulated advanced persistent threats as a penetration tester with expertise in host and network exploitation. Assisted in the development of the cyber red team management Standard Operating Procedure documentation Developed" Strategies for Kernel Security and open Source Intelligent Gathering techniques" for safety inspection. worked on Hosting a" Capture the Flag(CTF)" competition utilizing Docker but in between I had to drop it to plunge back to college to continue the rail. In interest of my previous internship with the company, they got me a specialized training on" Cisco Security Operations" Conducted penetration testing commissioned by national agency and corporation.

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METASPLOIT RAPID7 US GSOC Internship 2021 (ongoing) A mechanism to maintain open AUTH and hang in the console. This project will lay the groundwork for registering gathered or generated authentication tokens against a target to be refreshed and sustained until a console exits, or in some cases across console restarts. When testing in a web environment, it's important to have a constant and open authentication working. It's also a good idea to have the log-in persist during testingso that other modules can be tested. One way to do this is by using a cookie. The project would conceivably register any/all of these cookies for use and remain active until the system resets. Many of the testing techniques with web servers like Man-in-the-middle attack with DNS traffic manipulation, Cross-site scripting, compromised third-party JavaScript rely on acquiring ensured Authentication to be active on the target. A lotof the modules have been doing their duty in a disparate manner, by using this approach or technique we canbring many modules functionalities together and make much faster and reliable testing facility with persistentconnection to the target even in the case of a system reboot or a console restart on the Metasploit framework'

HONORS AND AW	ARDS
Achievements	<ul> <li>Pool finalist Boston CTF</li> <li>Seimens best health care solutions (awarded 2nd)</li> <li>Best community project (open coach training)</li> <li>Block chain instructor</li> <li>WebGL community speaker</li> <li>Part of tensorflow JVM SIG community</li> <li>Finalist creative idea (open idea distribution)</li> <li>Challenge winner (Expo: GISEC)</li> <li>Qualified for 5G innovative idea in AWS and Verizon challenge</li> </ul>
Major Projects (Hungry challenges)	<ul> <li>Encrypted messenger</li> <li>Survival hunter multiplayer game (winner at VIT project submission)</li> <li>Family exercise trainer (sporty nut)</li> <li>TF advanced video culture</li> <li>NFT gaming (block chain)</li> <li>ML malware detection</li> <li>Secure routers</li> <li>IoT safety</li> <li>Right posture</li> <li>Trading robot</li> <li>RAT (harmful)</li> </ul>
Presentation	Team presenter for designing and deployment of AI fire detection model
	Introduce the history of web development and deployment with tensorflow.js and ml5.js and other technology in the stack for the modern DLP Introduce how to freely host the web application with high performance utilizing optimization, transpilation techniques and global CDN services.  Reverse Engineering conference Presenter for OSCP enthusiastic program Introduced CTF hacking competition, advanced technique and strategies for penetration testing

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Writing	<ul> <li>A guide to Open block chain tech         Team operator and instructor         Drafted an application design for coin trading using java, providing data collection and export         Complex event process , trigger and back test     </li> </ul>	
Responsibilities	<ul> <li>Google DSC community member for Abu-Dhabi university         Organize events based on technology and Human resource management</li> <li>Google DSC community member for South Africa university         Organised events on AI gaming with python, work ethics for web development</li> <li>Club trainer: CHKTNZ FC (Football Club)</li> <li>Google developer community member at Middlesex university</li> </ul>	
Extracurricular	<ul> <li>First rank – UAE TryHackMe.com         Cyber security training based on live methods</li> <li>World Rank 50 TryHackMe.com         <a href="https://tryhackme.com/leaderboards">https://tryhackme.com/leaderboards</a></li> <li>World Rank 110 (profile ranking)</li> <li>Leetcode Profile ID: <a href="https://leetcode.com/AfvanJaffer/">https://leetcode.com/AfvanJaffer/</a></li> <li>Updated rank: 182 now</li> </ul>	

	ADDITIONAL INFO	DDITIONAL INFORMATION	
	Hobbies	<ul> <li>Avid Book Reader – Read numerous novels of Sidney Sheldon and Jeffrey Archer</li> <li>Playing Games - Represented University in War of Wings tournament in Amity University (Jun 20)</li> </ul>	
Languages		■ English, Hindi, Malayalam, Tamil	
	Know me better	<ul> <li>Please Visit https://cvdesign.mobi/r-ZXsbXG to see my entire skills Set and all my Previous Experience</li> </ul>	