UMAR KHAN
Software Engineer

SKILLSET

+ Top Level Systems Design
+ Patterns Motivated Coding
+ Jupyter, VS, Eclipse, Colab
+ HTML, CSS, PHP, MYSQL
+ Quality Engineering

+ Coding in Several Languages
+ C++, C#, Java, Python
+ Structured Thinking
+ Requirements Engineering

EXPERIENCE

Research and Vision Module Developer
Jun 2018 - Jun 2019
Final Year Project, Islamabad - Pakistan
Final Year Project is a Reinforcement Learning based project that would offer autonomous solutions for drones.

Requirements Engineer and Developer
Jul 2017 - Sep 2017
AAWAZ, Islamabad - Pakistan
AAWAZ is an application that is still in development that will focus on providing smart AI driven tools to help accelerate and improve Learning in "Autistic" children to give them a chance and a nudge towards learning and developing like normal children.

Research Internee
Jun 2017 - Aug 2017
Dr. Seemab Latif, Islamabad - Pakistan
I conducted my research with my assistant professor Dr.Seemab Latif who is a PhD in AI and Natural Language Processing (NPL) from University of Manchester, United Kingdom (2010), our work consisted of working on medical aspects of challenges that were faced by Autistic Children regarding their reading, speaking and general learning ability.

Front End Developer
Jan 2019 - Apr 2019
Oversidemedia - Russia
Oversidemedia serving a client that has a community at "Discord" for the famed game of Chronicle of Elyria, they required building a social media platform for the community as it was growing rapidly, the platform is past developer testing and is yet to begin its community testing.

Back End Developer
Apr 2019 - TBD
Oversidemedia - Russia
Oversidemedia required transferring Data from Discord via its API and then required redisplaying it on their website for future analysis project, I have been officially hired but the project is yet to begin and is in its Requirements Analysis Phase.

PERSONAL PROJECTS

CARROM 2D GAME
It is a classical Carom 2D game that has multiple features like speed and angle sights for shooting in specific angles

DVR (DISTANCE VECTOR ROUTING)
Can be used to create a bunch of virtual routers which would then send each other data, using the DVR it would figure out the best way for the data to travel.

POSITIONAL
A machine learning solution to find the suitable Position for the players based on their skills

Note
All of the following projects can be seen with all their source code at my github

FORAGER SEARCH ENGINE
Forager is a search engine that reads data from a static dump of Wikipedia html pages that we crawled ourselves and then cleaned data using python, also with python we indexed the data and then use c# to show the search results.

TRAFFICSIM
A small time traffic simulation in Unity, you can test the simulation live: https://umaryousafzai.itch.io/umars-chowk-simulation

MAIL BOT (DISCORD)
Using Discord API I built a bot that builds a primitive mailing system for system built right inside the discord application itself.

SOFT SKILLS

COMMUNICATION
CREATIVITY
TEAMWORK
ORGANIZATION
LEADERSHIP

OTHER INTERESTS

Graphics Designing
Memory Palace

Sprint Solutions
Reading

EDUCATION

Secondary School
Grade A1 87%
Peshawar Model School – 2013

A Levels
Equivalency to 84.5 %
Roots College International – 2015

Bachelors in Software Engineering
Current CGPA 3.42
NUST (SEECS), H12 Campus – 2019

CONTACT

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