M. HASSAAN ARSHAD

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OBJECTIVE

I have a strong foundation in AI and deep learning, with extensive experience in cloud computing, DevOps, front-end web development, and game development. I am eager to leverage my technical and creative skills to drive innovation in artificial intelligence, develop immersive gaming experiences, and build scalable, cloud-based applications. Committed to delivering impactful solutions, I integrate cutting-edge technologies with exceptional user experiences.

Objective: Seeking a challenging role in a dynamic organization where I can apply my expertise in AI, cloud computing, DevOps, game development, and software development to create meaningful, transformative solutions.

EDUCATION

BS Computer Science, FAST-NUCES ISB   Expected 2024
Relevant Coursework: Programming, web development, full-stack, Machine Learning, Generative AI, Cloud engineering, Information security, Networking, DBMS.

Cambridge A levels, The City School, ISB, PK   2017 - 2019

Cambridge IGCSE 'O' Levels, The City School, ISB, PK   2015 - 2017

SKILLS

Programming Languages	Python, C, C#, C++, x86 Assembly, Javascript, SQL
Cloud Technologies	AWS, Azure, Lambda
Machine Learning	TensorFlow, PyTorch, scikit-learn, Keras
Generative AI	GPT-3.5 t, GANs, VAEs, Stable Diffusion
Networking	TCP/IP, DNS, HTTP/HTTPS, Wireshark, cisco
Databases	MySQL, MongoDB, Oracle, Microsoft SQL server
Web Development	HTML, CSS, Javascript, React, full-stack
Soft Skills	Teamwork, Problem-Solving, Time-Management, Adaptability
Management	Leadership, Project Management, Event Management, Event Hosting

EXPERIENCE

Intern   May 2024 - July 2024
M-Labs   *Lahore, PK*

- Role: Game Programming
- Developing & Delivering projects with a designated team
- Tools: GameMaker Studio 2.0, Unity engine, Roblox studio

Intern   Jun 2020 – Aug 2024
Shifa Int'l Hospital   *Islamabad, PK*

- Developed and maintained web applications using React and Node.js
- Focused on both frontend and backend web development

Sole Proprietorship   Jan 2018 - Jun 2020
H.A Digital   *Islamabad, PK*

- Designed and implemented a successful business plan
- International trade of video game virtual items
- Achieved over 50% ROI

Freelance Programming Feb 2020 - Present

Independent *Islamabad, PK*

- Worked with varying clients, international and local
- Mainly work on software design & development, Full-Stack Web Development, and Research work

PROJECTS

ReArtify-AI: Developed an end-to-end system to repair damaged paintings using five custom models. Currently co-authoring a research paper on the project.

Research Paper on GANs Wrote a research paper on the implementation of GANs in human-anime face translation. Tested 12 models, and proposed a new method for the task. Discussed mode collapse as well.

CI/CD pipeline builder Designed and implemented a CI/CD pipeline, automating the build, test, and deployment processes for a cloud-based system. Utilized tools such as Jenkins, Docker, and Kubernetes to ensure seamless integration and continuous delivery of software updates.

Flight Route Optimization Designed and implemented a flight route optimization algorithm using Genetic Algorithm.

Web Development Full-Stack multiple Website development using React, Node.js, Flask, ASP.NET, oracle DB, HTML & CSS

POS Software Multiple desktop POS software development using a variety of languages (Java, C++, Python)

Networking Large-Scale network development using Cisco Packet Tracer

Chatbot development Designed and implemented an advanced chatbot leveraging OpenAI's GPT-3.5-turbo and LangChain. The chatbot was capable of engaging in detailed discussions about a master's thesis, demonstrating good levels of comprehension and contextual understanding.

EXTRA-CURRICULAR ACTIVITIES

- Member of AICP, participating in their events and occasionally helping the management.
- 3rd position winner of 2024's FAST Startup Challenge, with successful incubation of startup idea.
- Member of FSA (Fast Society of Arts), regular engagement in event planning & organization. Have contributed to multiple successful events.
- Member of Fast Data Science Society's events team. Participated and contributed to the successful implementation of multiple events.
- Member of Fast Young Leaders Society's marketing team. Contributed in successfully marketing the initial events of the society

LEADERSHIP

- Head of Media team In FSA, leading a team of many highly capable individuals. Contributed greatly to the success of the events, and the social media outlook of the society. e.g. self-produced video of our first large event
- Led multiple projects to successful completion ahead of deadlines through effective management, collaboration, and leveraging the strengths of an amazing team. Fostered a collaborative and supportive environment that ensured timely and high-quality deliverables.