Kaleem Ahmad

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PERSONAL PROFILE

Individual with an academic background in computer science who is technically savvy, resourceful, competent, and hardworking. Excellent at developing appealing technical experience in a collaborative setting. My passion lies in solving problems with tailored data and algorithms. I can jump across verticals to deliver high-performing AI solutions.

WORK EXPERIENCE

August / 2021 – September / 2021

Software Engineering Virtual Experience Intern (Remote), Forage
JPMorgan Chase & Co. · Remote Internship

- Throughout this virtual experience, I familiarized myself with JPMorgan Chase frameworks and applied my technical skills to a hypothetical request from the firm's trading floor to analyze and visualize data.
  Certificate: https://rb.gy/phykhd

September / 2021 – May / 2022

Markets Division (Sales and Trading) Virtual Intern Experience (Asia), Forage
Citi · Remote Internship

- Throughout the Citi Markets Division (Sales and Trading) Virtual Intern Experience (Asia), I developed deep insights into what it is like to work at Citi.
  From September 2021 to May 2022, I have completed practical task modules in:
  1. Prepare and lead the Trading Floor Morning Meeting.
  2. Identify and summarize a key article from a financial news resource.
  3. Develop a short sales pitch on a unique trading idea or opportunity.
  4. Build and construct an analytical model.

Certificate: https://rb.gy/edkjoe

May / 2022

Cybersecurity Virtual Experience Program, Forage
Mastercard · Remote Internship

- Over the period of May 2022, I completed practical task modules in:
    1. Designing a phishing email simulation to spread awareness in users.
    2. Interpreting phishing simulation results.

Certificate: https://rb.gy/hikzd3

May / 2022

Back-End Engineering Virtual Experience Program, Forage
Lyft · Remote Internship

During this experience, I have completed practical modules in:
1. Software Architecture
2. Refactoring
3. Unit Testing
4. Test-Driven Development
   Certificate: https://rb.gy/hikzd3

EDUCATION

2020 - 2024

Bachelor of Science in Computer Science,
The University of Agriculture, Peshawar

2018 - 2020

Higher Secondary School Certificate (Pre-Engineering),
Afridi Model School & College, Peshawar

2016 - 2018

Secondary School Certificate (Science),
Umar Farooq Model School, Peshawar

PROFESSIONAL SPECIALIZATION CERTIFICATES

2020 – 2021 (6 Months)

**Certificate in IT
(Web, Software & Mobile Application Development)**,
National Vocational & Technical Training Commission, at
Islamia College University, Peshawar

- 6 months level-II certification program offered by NAVTTC Kamyab Jawan Program at Islamia College (Chartered University) Peshawar.
- Developed a full-stacked Online Voting System website with HTML, JavaScript, Php, Bootstrap, CSS, and MySQL.

Certificate: https://rb.gy/pyt2fk

November / 2020

Cybersecurity Specialization,
University of Maryland | Coursera

- This Cybersecurity Specialization covered the fundamental concepts underlying the construction of secure systems, from the hardware to the software to the human-computer interface, with the use of cryptography to secure interactions.

Certificate: https://rb.gy/3yszdt

September / 2020

Machine Learning Specialization,
University of Washington | Coursera
- This specialization included four courses;
    1. Machine Learning Foundation
    2. Machine Learning Regression
    3. Machine Learning Classification
    4. Machine Learning Clustering & Retrieval.
- This Specialization from the University of Washington's leading researchers introduced me to the exciting and in-demand field of Machine Learning. I gained practical experience in major areas of Machine Learning, such as prediction, classification, clustering, and information retrieval, through a series of practical case studies. I learned how to analyze large and complex datasets, build systems that adapt and improve over time, and create intelligent applications that can predict data.

Certificate: https://rb.gy/uiypik

August / 2020

An Introduction to Programming the Internet of Things Specialization,
University of California | Coursera
- In this specialization I learned the importance of IoT in society, the current components of typical IoT devices, and trends for the future. IoT design considerations, constraints, and interfacing between the physical world and your device will also be covered. also how to make design trade-offs between hardware and software. In this course, I also covered key components of networking.
- There were 6 courses in this specialization;
    1. Interfacing with the Arduino
    2. Interfacing with the Raspberry Pi
    3. Programming for the Internet of Things Project
    4. Intro to IoT and Embedded Systems
    5. The Arduino Platform and C Programming
    6. The Raspberry Pi and Python Programming for the Raspberry Pi.

Certificate: https://rb.gy/qr9gr3

January / 2022

Google IT Support Professional,
Google | Coursera
- This program included over 100 hours of instructions and hundreds of practice-based assessments, which helped me simulate real-world IT support scenarios that are critical for success in the workplace.
- I was introduced to troubleshooting, customer service, networking, operating systems, and security - foundational IT skills required for an entry-level job.
- There were 5 courses in this specialization;
  Technical Support Fundamentals, The Bits and Bytes of Computer Networking, Operating Systems and You: Becoming a Power User, System Administration and IT Infrastructure Services, IT Security: Defense against the digital dark arts.

Certificate: https://rb.gy/gq68rm, Badge: https://rb.gy/20qjoi

CERTIFICATES

1. **EF-SET English Certificate.**
   EF Standard English Proficiency Certificate
   - The EF-SET English Certificate is a standardized English test used primarily for English proficiency certification. It tests reading and listening skills but not speaking or writing skills. Scores on the EF SET range from 0 to 100 and are aligned with the six CEFR levels.
   Score: 90/100
   Certificate: www.efset.org/cert/ThGqZR

2. **Machine Learning**
   Stanford Online | Coursera
   - This course provided a broad introduction to machine learning and statistical pattern recognition. I Learned about both supervised and unsupervised learning as well as learning theory, reinforcement learning and control. I Explore recent applications of machine learning and design and develop algorithms for machines.
   - Topics included; Basics concepts of machine learning, Generative learning algorithms, Evaluating and debugging learning algorithms, Bias/variance tradeoff and VC dimension, Value and policy iteration, and Q-learning and value function approximation.
   Certificate: https://rb.gy/osj20a

3. **Machine Learning and Image Processing**
   Cisco thingQbator - IIT (BHU)
   - In this beginner-friendly course, I understood computer vision and learned about its various applications across many industries.
   - As part of this course, I utilized Python, Pillow, and OpenCV for basic image processing and performed image classification and object detection.
   Certificate: https://rb.gy/tmpdbs

4. **Introduction to IoT**
   Cisco
   - Learned the following core skills taking this course;
     1. How the current digital transformation is creating unprecedented economic opportunity.
     2. How the IoT is bridging the gap between operational and information technology systems.
     3. How standard business processes are being transformed.
     4. The security concerns that must be considered when implementing IoT solutions.
   Certificate: https://rb.gy/bg479x
   Badge: https://rb.gy/j9f5gd

5. **Software Quality Assurance for Mobile Applications**
   DigiSkills.pk — UNDP Pakistan
   - This program is designed for Software Quality Control and Assurance Manager, Project Manager and Software Development Team Member who is interested in increasing the likelihood of project success. The course looks at software quality control and assurance processes and practices, as well as support disciplines such as software project management, software configuration management and release management. Successful software quality assurance is the result of the combination and integration of these practices, and complements SE practices.
   - Topics include;
     1. Success, Reflections, Terms and Concepts.
     2. Competencies, Standards, Software Lifecycle Models, Software Quality Assurance.
     3. Software Project Management, Adoption of PM Practices.
     4. Reviews and Inspections, Software Testing, Testing Effort, Advances in Testing.
     5. Software Quality as a Profession.
     6. Metrics and Analysis, Software Configuration Management.
     7. Release Management.
   Certificate: https://rb.gy/tan6hu

6. **Freelancing**
   DigiSkills.pk
   - This course taught us the tips and tricks of freelancing in the simplest and effective way. The do's and don'ts were discussed, about which a freelancer must be aware of. Introduction of different types of freelance marketplaces.
   Certificate: https://rb.gy/maikz8

7. **Digital Marketing**
   DigiSkills.pk
   - The course provided a framework to design and execute digital campaigns. It also enabled us to leverage the power of digital to create awareness (upper funnel marketing) to realizing sales (Lower Funnel marketing).
   Certificate: https://rb.gy/mavcms

8. **WordPress**
   DigiSkills.pk
   - This was a step-by-step WordPress learning course where I learned how to create WordPress websites, install WordPress Themes, WordPress Plugins.
   Certificate ID: MHEDGDDPQ
   Verify Certificate at: https://digiskills.pk/verify/

9. **E-Commerce Management**
   DigiSkills.pk
   - This course focuses on enabling trainees to learn and understand basic skills of setting-up and running an online store from End-to-End including selecting niche market of products, domain hosting, selection of open-source E-Business software like Magento and Prestashop etc.

   Certificate ID: YADPAVWZA
   Verify Certificate at: https://digiskills.pk/verify/

10. **SEO (Search Engine Optimization)**
    DigiSkills.pk
    - Search engine optimization (SEO) is the process of improving your website to increase visibility on popular search engines such as Google and Bing. In this certification course, I learned all things about search engine optimization, website optimization, link building, keyword research, and much more.

    Certificate ID: NJ8SXMXZA
    Verify Certificate at: https://digiskills.pk/verify/

11. **Elements of Artificial Intelligence**
    University of Helsinki
    - In this course I learned what AI is, what is possible (and not possible) with AI, and how it affects our lives.
    - Learned about algorithms that make creating AI methods possible.

    Certificate: https://rb.gy/cynuni

12. **Digital Literacy**
    DigiSkills.pk
    - This course helped us in learning office productivity tools that are part of the modern work environment. It provided hands-on training in Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Internet and Email applications.

    Certificate ID: YRQ8JAUPQ
    Verify Certificate at: https://digiskills.pk/verify/

13. **Creative Writing**
    DigiSkills.pk
    - This course prepared me for many kinds of writing, including reports, resumes, blogs, website content, proposal writing and copywriting. In the uneven playing field of our education system, fluency in English is particularly varied across different categories of schools.

    Certificate ID: AE8TKHSPQ
    Verify Certificate at: https://digiskills.pk/verify/

14. Front-End Web UI Framework and Tools
Coursera
- This course gave me an overview of client-side web UI frameworks. I learned about grids and responsive design, Bootstrap, CSS, and JavaScript components. I learned about CSS preprocessors, Less and Sass. I also learned the basics of Node.js and NPM and task runners like Grunt and Gulp.
- At the end of this course, I was able to
    1. Set up, design and style a web page using Bootstrap 4 and its components.
    2. Create a responsive web page design, and
    3. Make use of web tools to set up and manage websites.

Certificate: https://rb.gy/uiejx2

15. Introduction to Programming with MATLAB
Coursera
- In this course I learned the fundamental computer programming concepts such as variables, control structures, functions and many others.
- I learned about various data types and how to handle them in MATLAB.
- I learned about the powerful support MATLAB provides for working with matrices.
- Learned about file input/output.

Certificate: https://rb.gy/nwdkar

16. Use Canva to create Desktop and Mobile-Friendly Web Pages
Coursera
- By the end of this project, I was able to create a ready to publish Desktop friendly and Mobile-friendly web pages with the help of the Canva graphic design tool. These simple web pages can be independently published with help of Canva URL or URL shorteners.
- This course included introduction to Canva, how to design Desktop and Mobile friendly web pages and linking these pages to Social media channels and prepare these simple webpages for publishing or can be shared with the help of Canva URLs or URL shorteners.

Certificate: https://rb.gy/ry8tau

17. Build a Full Website using WordPress
Coursera
- What I learned:
    1. Create a new website for development in WordPress.
    2. Edit webpage content, links, and images.
    3. Add and organize widgets to a webpage.

Certificate: https://rb.gy/oaxvfy

18. **Advanced Content and Social Tactics to Optimize SEO**
Coursera
   - Discovered the content marketing and social media ecosystems and how these interconnected channels drive search results to a website. Leverage content marketing and social media as part of your SEO strategy, and how to use influence marketing to establish a website's authority.
Certificate: https://rb.gy/qwe3yj

19. **Google SEO Fundamentals**
Coursera
   - Gained an understanding of search engine algorithms and how they affect organic search results and websites. Building on this knowledge, you'll learn the key elements for creating an effective SEO strategy, including how to select keywords and perform keyword research; consumer psychology and search behavior; and how to conduct on-page SEO analysis to identify opportunities to improve a website's search optimization.
Certificate: https://rb.gy/xcv63n

20. **Optimizing a Website for Google Search**
Coursera
   - Learn the ins and outs of optimizing a website, from conducting an initial audit to presenting your findings and recommendations. Hands-on activities include learning how to select and apply appropriate keywords throughout a website, incorporating keyword research in a content marketing strategy, and optimizing a site for local search. Also learned strategies for setting goals and client/stakeholder expectations, building effective analytics and reports, and communicating SEO improvements.
Certificate: https://rb.gy/8bm4te

21. **Introduction to Google SEO**
Coursera
   - By the end of this module, I was able to define Search Engine Optimization and explain the basics of SEO as a business (as well as how SEO shapes the Internet itself).
Certificate: https://rb.gy/ccxas8

22. **Introduction to HTML**
Coursera
   - In this project, I developed an HTML resource sheet and a very basic sample webpage as per course requirements. I used a text editor called Notepad++ to write the code, and the Chrome browser to display the resulting webpage.
Certificate: https://rb.gy/qw8rze

23. **Introduction to Data Analytics**
Coursera
- Throughout this course I learned the key aspects to data analysis. I began to explore the fundamentals of gathering data, and learned how to identify data sources. I then learned how to clean, analyze, and share data with the use of visualizations and dashboard tools. This all comes together in the final project where it tested my knowledge of the course material, explored what it means to be a Data Analyst, and provided a real-world scenario of data analysis.

Certificate: https://rb.gy/a1gafi

24. **AI for Everyone**
Coursera
- In this course, I learned:
  1. The meaning behind common AI terminology, including neural networks, machine learning, deep learning, and data science.
  2. What AI realistically can and cannot do.
  3. How to spot opportunities to apply AI to problems in your own organization.
  4. What it feels like to build machine learning and data science projects.
  5. How to work with an AI team and build an AI strategy in your company.
  6. How to navigate ethical and societal discussions surrounding AI.

Certificate: https://rb.gy/mwk6dy

25. **Python for Data Science, AI & Development**
Coursera
- What I learned:
  1. Python Basics including Types, Expressions, and Variables.
  2. Describe Data Structures in Python including Lists, Tuples, Dictionaries, Sets.
  3. Apply Python programming using Branching, Loops, Functions, Objects & Classes.
  4. Work with data in Python using Pandas and Numpy libraries.

Certificate: https://rb.gy/g7alyo
Badge: https://rb.gy/gokxpd

SKILLS

- <u>MS Office Package:</u> Word, Excel, Access, and Powerpoint
- <u>Python:</u> Pandas, Keras, and Tensorflow
- <u>Database operation:</u> Microsoft Office Access, Oracle 8i, Apache, and MySQL
- <u>Statistical operation:</u> NumPy, SciPy, Matplotlib
- <u>Programming:</u> Python, C++, Java, JavaScript, Php, SQL, HTML, CSS, and JavaScript
- <u>Frameworks:</u> WordPress, Vue.js, React, Flutter, and Bootstrap

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PERSONAL INTERESTS

- Programming
- Full Stack Web and Android Applications Development
- Front-End Designing
- Internet Of Things (IoT)
- UI & UX Designs
- AI / ML / Data Science / Big Data

References are available on request.

REFERENCES