

# Wajahat Ashraf

House 4, Street 1/14, Bahar Colony, Chakri Road Rawalpindi  
+923336188437 | [wajahatashraf420@gmail.com](mailto:wajahatashraf420@gmail.com) | [www.linkedin.com/in/wajahatashraf99](https://www.linkedin.com/in/wajahatashraf99)

## Education

### Comsats University Islamabad

Bachelor of Science in Electrical Computer Engineering

- CGPA of 3.23/4

February 2020 - June 2024

Wah Campus, PK

## Relevant Coursework

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| <ul style="list-style-type: none"><li>Data Structure Algorithm</li><li>Artificial Intelligence</li><li>Computer Organization</li><li>Digital Image Processing</li></ul> | <ul style="list-style-type: none"><li>Object Oriented Programming</li><li>Data Communication and Computer Networks</li><li>Real Time Embedded Systems</li><li>Microprocessor Systems and Interfacing</li></ul> |
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## Experience

### Magma Systems

Assistant Data Scientist

January 2024 – Present

Islamabad, Pakistan

- Streamlined and enhanced data pipelines to fully automate the ingestion, processing, and visualization of zoning and parcel data, significantly improving operational efficiency. Leveraged AWS services like EC2 and Elastic Beanstalk to ensure scalability, reliability, and seamless deployment.
- Developed and maintained automated scripts for data insertion into PostgreSQL and Elasticsearch databases, integrating CI/CD tools such as Jenkins, Docker, and Git for version control and deployment. Using AWS services such as EC2 and Elastic Beanstalk for development and deployment, while utilizing S3 for data backup and storage.
- Performed large-scale web scraping of zoning and parcel-level data from multiple U.S. websites, handling diverse formats such as PBF, Raster, and JSON. Transformed raw unstructured data into standardized formats, enabling accurate analysis and decision making.
- Developed and maintained an automated solution to extract parking-related data from U.S. city websites. Parsed structured (tables) and unstructured (paragraphs) content, converting it into a clean, structured JSON format for easy integration and quick retrieval.
- Utilized a robust stack of technologies, including PostgreSQL, Elasticsearch, AWS (EC2, S3, Elastic Beanstalk), Docker, and Jenkins, to manage and optimize data processing workflows, ensuring high performance, scalability, and reliability.

### Magma Systems

Data Engineering Intern

October 2023 – December 2023

Islamabad, Pakistan

- Worked at Magma Systems, a subsidiary of Zoneomics—a tech-enabled zoning data platform powered by AI and machine learning, delivering standardized zoning and land-use data to users through web platforms, APIs, and reports.
- Extracted zoning and parcel data from various websites in formats like PBF, Raster, and JSON, and transformed it into standard formats.
- Executed complex queries on PostgreSQL databases to retrieve data quickly and ensure consistency.
- Maintained and debugged automated data pipelines to ensure smooth operations and fix any issues.
- Used tools like Jenkins, Docker, and GitHub for CI/CD, version control, and collaboration.

## Certificate

### Generative AI: Introduction and Applications

July 2025

Authorized by IBM, offered through Coursera

- Gained a strong understanding of Generative AI and its distinction from Discriminative AI.
- Explored real-world applications of Generative AI across multiple industries.
- Worked with tools for generating text, images, audio, video, and code.
- Developed skills in Prompt Engineering, content creation, and large language models.

### Advanced Data Structures, RSA and Quantum Algorithms

June 2025

Authorized by University of Colorado Boulder, offered through Coursera

- Explored mathematical foundations of the RSA cryptosystem and its practical applications.
- Studied fundamentals of quantum computation and algorithms with potential to break RSA.
- Compared classical and quantum approaches to cryptography and data security.
- Implemented advanced data structures and algorithmic techniques using Python.

### AWS Cloud Practitioner Certification

October 2024

Authorized by AWS Training and Certification

- Gained foundational knowledge of AWS Cloud concepts, services, and architecture.
- Developed a strong understanding of AWS security, compliance, and pricing models.
- Learned to navigate and leverage AWS services for business solutions effectively.

### Python Programming for Data Science, AI & Development

July 2024

Authorized by IBM, offered through Coursera

- Proficient in Python programming with a strong foundation in logic and libraries such as Pandas, NumPy, and Jupyter.
- Skilled in data structures, web scraping, and API access.
- Experienced in software development practices and advanced data analysis techniques.

## Technical Skills

**Languages:** C++, Java (OOP), Python, SQL (PostgreSQL), HTML/CSS, JavaScript

**Frameworks & Libraries:** React.js, Flask, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, Scrapy, Selenium, Pickle, OpenCV (CV2), Psycopg2, PostGIS

**Developer Tools:** VS Code, Spyder, MATLAB, Android Studio, AutoCAD, Docker, Git, Jenkins, PgAdmin

**Cloud & DevOps:** AWS (EC2, S3), CI/CD pipelines (Jenkins, GitHub Actions), Docker, GitHub