

ARSHAD VASEEM GHOUSE

Garland, TX | 531.225.9476 | arshadvasg@outlook.com | <https://www.linkedin.com/in/arshadghouse/>

EDUCATION

Masters of Science - Computer Science Major: Software Engineering	May 2023
Bradley University	3.46
Bachelor of Science - Engineering	Sept 2020
Osmania University	3.42

WORK EXPERIENCE

Prowesys, Inc.	Richardson, TX
Software Developer	Aug 2023 - Current

- Developed and deployed a **Django-based web interface**, increasing data accessibility for remote team by **25%**.
- Generated data-driven insights, supporting key business decisions and driving a **6%** increase in revenue.
- Gathered weekly reports on data entry metrics, helping strategic planning and **resource allocation**.

Pioneer Services LLC	West Des Moines, IA
Python Developer	Jan 2023 - Aug 2023

- Improved **Role-Based access control** turnaround time and security by developing a module using **Python-Flask** framework to automate access control over the **Payroll system** used by **400** employees.
- Integrated and validated the **access control** automation module using **Python Mocks** and **Unit tests** into a **CI/CD Pipeline** and improved test isolation by **15%** and **Unix OS** for automating tasks.
- Improved **block allocation** service by reducing **memory utilization** by **86%** by analyzing heap snapshots of the service and **re-factoring** the software which resulted in deploying clusters storing **3x** more data.
- Developed and maintained data pipelines in **Apache Airflow** using Python to extract metadata from data sources such as **AWS Redshift, PostgreSQL** and shift into **Neo4j** database.

Shivamshu Associates	Telangana, India
Test Automation Engineer	Jan 2019 - Aug 2020

- Designed and implemented automation test frameworks for **IEEE 802.11ac** and **ax-enabled** devices to increase reliability by **15%** and reduce operational costs by **20%**.
- Implemented **Robot Framework, Selenium, TestNG**, and **Cucumber testing** to automate tests made on **Wifi 6** and **6E** performance and streamline **regression testing** performances
- Performed setup and management of wireless network to support a reliable connection of up to **250 devices**.

TECHNICAL SKILLS

- Programming Languages:** C++, Java, Python, Django, Spring, NodeJS, React; Unix OS, Shell Scripting, RBAC, ACL
- Web Services:** Flask, RESTful, API; FTP; **Database:** JDBC, MySQL, MongoDB, Neo4j, Apache Airflow, PostgreSQL
- Version Control:** Git, BitBucket; **Testing:** Python Mocks, JUnit, Cucumber, TestNG, Postman, Ci/ CD Pipeline; **Docker**
- Wifi Protocols:** 802.11a/b/g/n/ac/ax/be; **TCP/IP, DHCP, DNS** protocol; **Test Automation:** Robot, Selenium, Appium

PROJECTS

Flight Route Finder with trip planning using C++	Aug 2021
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- Implemented Data Structures like **Queues, Stacks, Disjoint sets** and **Linked Lists** to create nodes representing airport codes.
- Followed **FIFO** and **LIFO** strategies to traverse from one node to another representing travel to different cities.
- Used **C++** programming language to work on the algorithm.

Wifi Speed Performance Testing Project	May 2021
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- Designed and executed test cases with **Python** scripting to automate test scenarios for evaluating performance comparison and **throughput** of different wifi routers accepting IEEE standards **802.11n,ac,ax** with the new **802.11be**.
- Analyzed **Jitter** and downloaded speeds using **PRTG** in **Huawei** and **OnePlus** smartphones.

Student Database Web Application using PHP and MEW4	May 2022
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- Used **FTP** File Transfer Protocol to transfer files between the computer over a **TCP/IP** connection.
- Designed a database using the phpMyAdmin tool developed on **PHP** and deployed on the playground server.
- Worked on building the UI using **Microsoft Expression Web 4** and integrated the DB to UI using PHP codes and FileZilla FTP.

Crypto and Stock Price Prediction using Python	Aug 2022
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- Authorised a **Python** script to compile all time historical data for **500** stocks and cryptocurrencies into a **MySQL** database.
- Built a **Convolutional Neural Network** to classify stocks as "buy" or "sell" based on images of the stock price graph.

Post Secondary Graduation Rates DS Project using Pandas	Jan 2022
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- Worked on data sets using **Pandas** framework to analyze different graduation rates for students in the United States.
- Performed **Data Kurtosis, Outliers**, and data visualizations to create **Graphs, Pie charts, Seaborn Lineplot** and **Scatter Plot** of the dataset containing **200 million** data.

Relevant Courses: Database Management Systems, Fundamentals of Data Science using Python, Advanced Topics in Software Engineering, Agile Software Development, Advanced Mechanical Vibrations