Khaleel Ahmad

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Education

BTU Cottbus-Senftenberg, Germany   Apr 2025 – Present
Master of Science in Artificial Intelligence (Working Student eligible)
Relevant Coursework: Network and System Security, Distributed Computing in ML, Logic in Databases

Information Technology University, Pakistan   Sep 2016 – Feb 2021
Bachelor of Science in Computer Science

Skills

Languages: Python (pytest), Java, C, C++, Bash, Zsh, HCL (terraform)

Databases: MSSQL, MySQL, PostgreSQL, MongoDB

DevOPS: Linux (Debian, Ubuntu, CentOS), Kubernetes, Docker, Git, Ansible, Terraform, CI/CD (GitHub Actions), GitLab CI,

Frameworks & Monitoring: SDLC, Test Automation, Flask, Django, Node.js, ReactJS, Prometheus, Grafana

Data Engineering: Apache Airflow (CI/CD & ETL Pipeline), PowerBi Dashboards

Cloud: VMware, AWS, GCP, Azure, IBM, Digital Ocean, Alibaba

Experience

Ericsson   Aug 2022 – Feb 2025
Data (Platform) & Python Engineer
- Developed and maintained Python-based automated validation scripts using Pytest to verify data pipelines and MSSQL workflows, improving reliability and early defect detection.
- Integrated Pytest automation into CI/CD workflows to validate distributed data processing jobs and database operations before deployment.
- Automated MSSQL workflows with Python and pymssql, reducing data processing time by 30%.
- Provisioned distributed VMware server architecture on HPE virtual machines using Terraform and Ansible.

Hello App   Jan 2020 – July 2022
Linux System Administrator & Python Developer
- Managed multi-cloud infrastructure for 50+ applications across AWS, GCP, Azure, DigitalOcean, Vultr & Linode, ensuring 99.9% SLA uptime and high availability.
- Deployed and administered 50+ websites using WHM/cPanel, Vesta, CloudPanel, and ISPConfig, streamlining web hosting operations.
- Deployed scalable WordPress and Python applications, enhancing cloud infrastructure efficiency and performance.

Projects

Tech Migration from Ericsson GSC China in   Mar 2023 – Jun 2024
Tech Stack: Python, Apache Airflow (Workflow Orchestration / CI/CD), AWS, MSSQL, Linux, Bash, On-prem VPS
- Migrated critical infrastructure and automated workflows from Ericsson GSC China to AWS and internal VPS infrastructure, ensuring zero-downtime system operations.
- Re-engineered data pipelines using Apache Airflow and Python, improving reliability and reducing manual intervention by 40%.

Infotainment Service Test Automation Framework in   Mar 2023 – Jun 2024
Tech Stack: Python, Pytest, Requests, GitLab CI/CD, Docker, Linux, Pytest-HTML
- Designed and implemented a scalable Python-based test automation framework to validate infotainment backend services (media, navigation, user preferences).
- Developed API-level automated test cases covering functional, regression, and negative scenarios using Pytest.
- Integrated automated tests into GitLab CI/CD pipelines, enabling continuous quality checks on every commit.
- Generated detailed HTML test reports and analyzed failures to improve system reliability and test coverage.

Delta Scanner | Ericsson/Jazz in   Mar 2023 – Jun 2024
Tech Stack: Python, pymssql, Custom Distributed Processing, Multiprocessing, XQuery
- Developed real-time monitoring solution using multiprocessing and custom distributed computing to analyze 30,000 XML files for parameter value changes.

Certifications

Certified Kubernetes Administrator (CKA) 🔲
Containerized Applications on AWS aws
Python Data Structures ∞
Continuous Integration and Continuous Delivery (CI/CD) IBM