Quhura Fathima

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Detail-oriented and innovative software developer with 2+ years of experience in full-stack development, database optimization, and cloud deployment. Proficient in Java, React.js, Node.js, and database systems like MySQL and SAP HANA, with a strong foundation in building scalable, secure, and user-friendly applications. Passionate about leveraging technology to solve complex problems and drive business efficiency while continuously learning and adapting to emerging trends.

Work Experience

Accenture - Application Development Associate (Dec 2022 - July 2024)

- Enhanced database performance by optimizing SAP HANA landscapes, leveraging partitioning, indexing, and compression techniques, and reducing query execution times by 30% through EarlyWatch Alert (EWA) analysis and data volume reclaim operations.
- Automated database upgrade processes, reducing manual effort by 40%, using Python scripting, Shell scripting, and integration with Jenkins pipelines for scheduled maintenance tasks.
- Deployed and upgraded high-availability database systems, including SAP HANA, MaxDB, and ASE, within the HEC (HANA Enterprise Cloud) framework, ensuring 99.9% uptime for critical production environments.
- Secured sensitive data by implementing end-to-end encryption, SSL/TLS configurations, and HANA Secure Storage for key management, maintaining compliance with ISO 27001 standards.
- Streamlined backup and disaster recovery processes utilizing AWS Backint, Azure Site Recovery, and snapshot replication, achieving 100% reliability and a 25% reduction in backup times.
- Resolved system issues by troubleshooting Windows and Linux-based SAP HANA instances, leveraging tools like HANA Studio, ST04 monitoring, and OS-level performance analysis to reduce downtime by 20%.
- Implemented system health monitoring and alerting using SAP Solution Manager, CloudWatch, and Grafana dashboards, ensuring proactive incident response and reducing incident resolution times by 15%.
- Designed and executed database migrations across cloud platforms (AWS and Azure), minimizing downtime during migration and optimizing post-migration performance.
- Collaborated with DevOps teams to containerize database environments using Docker and orchestrated deployments via Kubernetes for streamlined scaling and fault tolerance.
- Developed RESTful APIs to automate system monitoring and generated reports for data volume, performance, and backup efficiency using Python Flask.
- Executed key technical solutions, including SAP HANA LSS installations, ODBC driver setups, and Oracle client configurations, meeting diverse client requirements with minimal downtime.
- Awards and Recognition:
  -> Honored with the **Accenture Excellence Award** for exceptional contributions to database optimization and project success.
- Key Technologies & Skills:
  -> SAP HANA | SAP BASIS | MaxDB | ASE | AWS Backint | Azure Site Recovery | Python | Shell Scripting | Docker | Kubernetes | Azure | Jenkins | Grafana | SAP Solution Manager | REST APIs | Cloud Computing | Data Encryption | Performance Tuning

Cognizant - Program Analyst Intern (Feb 2022 - Aug 2022)

- Assisted in database management by supporting the design and maintenance of SQL Server databases, ensuring efficient data storage and retrieval processes for client projects.
- Performed basic data analysis using Power BI, creating interactive dashboards and visualizations to provide insights for business decision-making.
- Contributed to data reporting by generating automated reports through SQL queries, improving reporting efficiency and accuracy by 15%.
- Supported data warehousing tasks by consolidating datasets from various sources, ensuring data consistency and accessibility for stakeholders.
- Collaborated with team members to troubleshoot and resolve database-related issues, achieving a resolution rate of 95% within defined SLAs.
- Participated in technical knowledge-sharing sessions, gaining exposure to tools like Power BI, SSIS, and SSRS, and enhancing understanding of business intelligence workflows.
- Documented project processes and findings, improving team productivity and ensuring clear communication with stakeholders.
- Key Technologies & Tools:
- SQL | Power BI | Data Warehousing | Database Management | Data Analysis | Business Intelligence | Data Visualization | Troubleshooting

Leadership & Extracurricular Activities

1. President, ACM-W (Association for Computing Machinery - Women)
Old Dominion University | Aug 2024 – Present
- Spearheaded initiatives to promote women in computing, organizing impactful events such as Movie Night, Trick or Research, and Hackathons that increased community engagement by 30%.
- Established mentorship and networking programs by collaborating with faculty, fostering professional growth among members.
- Secured sponsorships and funding for events, enhancing the chapter's reach and resources.

2. Student Leader, Global Student Friendship (GSF)
Old Dominion University | Aug 2024 – Present
- Coordinated large-scale events like Beach Day, Thanksgiving Dinners, and Thrift at Home, engaging over 100 students from diverse cultural backgrounds.
- Recognized for outstanding contributions with a leadership certification for fostering inclusivity and student community building.

3. Publicity Head, ACM Student Chapter
MVSR Engineering College | Feb 2020 – Jul 2022
- Designed and executed social media campaigns and newsletters, driving a 40% increase in participation for events like Innovision 2020 & 2021.
- Organized technical workshops and contests, boosting chapter visibility and technical skill development among students.
- Received accolades for implementing innovative promotional strategies that enhanced engagement and chapter branding.

Skills & Areas of Interest

1. Technical Skills
- Programming Languages: Java, Python, C, C++, JavaScript
- Web Development: React.js, Node.js, Express.js, HTML, CSS, Bootstrap
- Database Management: MySQL, SAP HANA, Firebase
- Cloud Platforms: AWS (EC2, S3, Backint), Azure (Site Recovery)
- DevOps Tools: Docker, Kubernetes, Jenkins
- Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, Regression, Classification, Data Visualization
- Cybersecurity: SSL/TLS Encryption, Risk Mitigation, Secure Storage

2. Key Strengths
- Full Stack Development: Building secure, scalable web applications.
- AI & ML: Implementing data-driven solutions with ML models.
- Problem Solving: Resolving complex technical challenges.

Educational History

Master of Science (2024 - 2026)
Old Dominion University
Major: Computer Science
CGPA: 4.0 / 4.0
Relevant Coursework: Web Programming, Algorithms and Data Structures, Data Analytics & Big Data, Introduction to Data Science, Foundations of Computing.

Bachelor of Engineering (2018 - 2022)
Osmania University
Major: Computer Science and Engineering
CGPA: 8.26 / 10.0
Relevant Coursework: Software Engineering, Artificial Intelligence, Machine Learning, Cybersecurity, Web Technologies.

Academic Projects

1. Course Advising Portal
Technologies: React.js, Node.js, Express.js, MySQL, Firebase, Render, reCAPTCHA, Nodemailer, Material-UI, bcrypt, RESTful APIs
- Developed a student advising system to streamline course advising with real-time validation and form submission.
- Built an admin dashboard with role-based access for form approval, rejection, and notifications, reducing manual workload by 40%.
- Implemented security measures such as bot protection, session management, and clickjacking prevention to ensure system integrity.
- Successfully deployed the portal on Render and Firebase, enabling real-time access for students and faculty.

2. Library Management System
Technologies: React, Node.js, MySQL (XAMPP), Bootstrap
- Created a full-stack application with user authentication and role-based access for students, librarians, and administrators.
- Designed RESTful APIs in Node.js for managing book inventory, user transactions, and logs, improving operational efficiency.
- Developed a responsive frontend with React and Bootstrap, incorporating features like dynamic search and filtering to enhance user experience.
- Improved database performance by optimizing MySQL queries and implementing relational design principles.

3. Gesture-Based Input System
Technologies: Python, OpenCV, Mediapipe, Pycharm, Jupyter Notebook
- Built a real-time hand recognition system to control media playback using gesture inputs, achieving 90% recognition accuracy.
- Led a team to implement image processing algorithms such as contour detection and convex hull, ensuring system reliability under varied lighting.
- Designed modular architecture using the MVC pattern for scalability and explored applications in sign language interpretation and smart home automation.

Trainings

1. Accenture TQ 22-23 Training
- Earned certification covering Blockchain Technologies, AI, Python, and Machine Learning, focusing on practical applications.
- Completed a capstone project, integrating AI and Blockchain for a secure and efficient data-sharing platform.

2. .NET Full Stack Web Development (Wipro)
- Certified in .NET Framework, backend API development, and frontend design.
- Built the Library Management System Project, implementing user authentication, database optimization, and responsive design.

3. Machine Learning Training (Internshala)
- Received certification for mastering supervised and unsupervised algorithms, including regression, clustering, and classification techniques.
- Developed a Machine Learning Project predicting housing prices using Python (Pandas, NumPy, Scikit-learn), achieving 85% accuracy.

4. Web Development Training (Verzeo, Certified by Microsoft USA)
- Awarded a certificate for expertise in HTML, CSS, JavaScript, and responsive design principles.
- Completed two projects:
-> Minor Project: Developed a User Profile Website with authentication and dashboard functionality.
-> Major Project: Built a User Management System for role-based access control and streamlined user operations.

5. Information Security / Cybersecurity Fundamentals Training (SAP)
- Conducted vulnerability assessments and authored a VAPT report detailing findings on risks, exploits, and remediation.
- Gained expertise in firewalls, access control, multi-factor authentication (MFA), anti-virus, IDS/IPS, and SIEM tools.
- Studied network protocols, including TCP/IP, UDP, HTTP/HTTPS, SMTP, DNS, and the OSI model, to secure system configurations.
- Familiarized with cybersecurity frameworks (ISO 27001, NIST), encryption techniques, and secure patch management strategies.

Certifications

- Java Programming Masterclass for Software Developers– Udemy.
- Python for Data Science and Machine Learning Bootcamp - Udemy
- Problem Solving Certificate - HackerRank
- Javascript Certificate - HackerRank
- HTML Training - Spoken Tutorial
- Cybersecurity Awareness – Cisco Networking Academy.
- Cybersecurity Essentials – Cisco Networking Academy.
- Introduction to Packet Tracer – Cisco Networking Academy.
- CyberOps Associate - Cisco Networking Academy

Accomplishments

- **Hackathon Recognition:** Participated in a Hackathon during undergraduate studies, receiving recognition for innovative project development and teamwork.
- **C++ Gold Badge:** Awarded the Gold Badge in C++ on HackerRank for excellence in problem-solving and programming.
- **State Rank Holder:** Achieved state 2nd rank in academics during high school and received a cash prize for outstanding performance.