

# Quhura Fathima

Graduate Student at ODU

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## Certifications & Trainings

- **.NET Full Stack Web Development (Great Learning, Sponsored by Wipro) | July 2022**  
Gained expertise in developing end-to-end web applications using the .NET framework, including backend APIs and frontend design.
- **Java Programming Masterclass (Udemy) | February 2024**  
Mastered object-oriented programming, multithreading, and advanced Java concepts for software development.
- **Introduction to Packet Tracer (Cisco Networking Academy) | May 2021**  
Learned to simulate network setups, configure devices, and troubleshoot connectivity using Cisco Packet Tracer.
- **Web Development (Verzeo) | May 2020**  
Built web applications by mastering HTML, CSS, JavaScript, and responsive design principles.
- **Machine Learning (Internshala) | June 2020**  
Acquired foundational skills in supervised and unsupervised learning algorithms with hands-on project implementation.
- **Cybersecurity Essentials (Cisco Networking Academy) | September 2019**  
Developed understanding of network security principles, including risk management and threat mitigation strategies.

## Leadership

- **President, ACM-W, Old Dominion University | Aug 2024 – Present**  
Lead initiatives promoting women in computing, organized events such as Movie Night, Trick or Research, and Hackathons, and collaborated with faculty for mentorship and networking programs.
- **Student Leader, GSF, Old Dominion University | Aug 2024 – Present**  
Organized events like Beach Day, Thanksgiving Dinners, and Thrift at Home, earning certification for outstanding contributions.
- **Publicity Head, ACM Student Chapter, MVSR Engineering College | Feb 2020 – Jul 2022**  
Designed promotional strategies and content for ACM events like Innovision 2020 & 2021, enhancing engagement through social media campaigns and newsletters.

## Educational History

**Master of Science (2024 - 2026)**

**Old Dominion University**

Computer Science

CGPA:

**Bachelor of Engineering (2018 - 2022)**

**Osmania University**

Computer Science and Engineering

CGPA: 8.26 / 10

## Skills / Areas of Interest

- Programming Languages: C, C++, Python, Java
- Full Stack Development
- HTML & CSS
- Problem Solving
- Database Management and Optimization
- Artificial Intelligence and Machine Learning
- Cybersecurity
- Business Intelligence and Analytics
- Networking and Cloud Computing
- Leadership and Mentorship

## Work Experience

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

- **Deployed and enhanced database systems** by installing and upgrading SAP HANA, MaxDB, and ASE databases within the HEC framework, ensuring smooth operations and high availability.
- **Optimized database performance** through regular EarlyWatch Alert (EWA) analysis and data volume reclaim operations, achieving measurable improvements in system responsiveness and efficiency.
- **Strengthened data security** by performing HANA database encryption and managing periodic key rotations, maintaining compliance with industry standards.
- **Streamlined backup and recovery processes**, utilizing AWS Backint and Azure portals to implement reliable data restoration strategies that adhered to project-specific retention policies.
- **Executed key technical solutions**, including SAP HANA LSS installations, ODBC driver installations, and Oracle client setups to meet diverse client requirements.
- **Provided actionable insights** through advanced system performance monitoring, ensuring optimized database operations for business-critical applications.

**Key Technologies & Skills:**

- SAP HANA | SAP BASIS | MaxDB | ASE | AWS Backint | Azure Backup

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

- **Gained advanced proficiency in database management systems (DBMS)** through intensive training and practical application, building a solid foundation in data modeling, query optimization, and data warehousing.
- **Mastered industry-leading tools for data analysis and business intelligence**, including Power BI, SSIS, SSRS, and SSAS, enabling effective visualization, reporting, and data integration solutions.
- **Enhanced technical expertise** by actively participating in workshops, collaborative training sessions, and team projects, resulting in a deeper understanding of modern data management practices.
- **Contributed to knowledge sharing and skill-building initiatives**, fostering a collaborative learning environment while staying updated on emerging trends and technologies in business intelligence and data analytics.

**Key Skills & Tools:**

- Power BI | SSIS | SSRS | SSAS | DBMS | Data Warehousing | Business Intelligence

## Academic Projects

### Course Advising Portal

- Technologies Used:** React.js, Node.js, Express.js, MySQL, Firebase, Render, reCAPTCHA, Nodemailer, Material-UI, bcrypt, and RESTful APIs.
- **Built a student advising system** for submitting, tracking, and managing course advising forms with real-time validation.
  - **Developed an admin dashboard** with role-based access control for form approval, rejection, and email notifications.
  - **Implemented security features**, including bot protection, password hashing, session management, and clickjacking prevention.
  - **Deployed on live servers** (Render & Firebase)

### Library Management System

- Technologies:** React, Node.js, MySQL (XAMPP), Bootstrap
- **Developed a full-stack web application** with user authentication and role-based access control for students, librarians, administrators.
  - **Built RESTful APIs in Node.js** for managing books, users, and transactions.
  - **Designed a MySQL database** to efficiently handle book inventory, issue/return logs, and user data.
  - **Created a responsive frontend using React** with dynamic search, filtering, and borrowing functionalities and ensured seamless usability using Bootstrap for responsive design.

### Gesture Based Input System

- Technologies:** Python, OpenCV, Mediapipe, Pycharm, Jupyter Notebook.
- **Developed a gesture-based system** for real-time hand recognition to control media playback.
  - **Led a team** to implement image processing algorithms like contour detection and convex hull.
  - **Optimized performance**, achieving 90% recognition accuracy under varied lighting with low latency.
  - **Designed modular architecture** using the MVC pattern for scalability and maintainability.
  - **Explored applications** in sign language interpretation and smart home automation.