

# MOHAMMED FAROOQ

SOFTWARE DEVELOPER | UI/UX DESIGNER

## CONTACT

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## SKILLS

### Soft skills

- Communication
- Team Collaboration
- Problem-Solving
- Adaptability

### Technical skills

- NodeJS
- Python
- Software Proficiency (Microsoft Office)
- Data Analysis (Excel)
- HTML5
- CSS
- JavaScript
- Web Development
- Cloud Computing
- Networking
- Git
- Git hub

## CAREER VISON

To become a leader in software quality assurance, leveraging my experience in testing and bug resolution to enhance software reliability and user experience. I seek to apply my knowledge of cloud technologies and testing methodologies while mentoring emerging professionals and fostering a culture of excellence in software development.

## LANGUAGES

English  
Hindi  
Telegu

## PROFILE

Seeking a challenging position in your esteemed company that will effectively leverage my technical skills, experience, and innovative mindset to contribute to the organization's success and facilitate its future growth. As a dedicated professional, my objective is to channel my enthusiasm, productivity, and extensive expertise into a role where I can consistently deliver high-quality output crucial to the advancement of the organization. I am confident that my inclusion in your team will bring significant benefits to your esteemed organization.

## EDUCATION

2019-2023 CGPA:6.2

### Bachelor of Engineering (B.E)- Information Technology

ISL Engineering college

2017-2019

### Intermediate- (M.P.C)

Gowtham Junior College

2016-2017

### 10th Standard (SSC)

Krishnaveni Talent School

CGPA:6.5

## PROJECTS

### AI VOICE ASSISTANT

- Optimized with PyCharm: Utilized PyCharm's features for streamlined and efficient development.
- Smart Web Search Automation: Engineered real-time, precise web search capabilities.
- Seamless YouTube Integration: Enabled intuitive voice-controlled search and video playback.
- Enhanced Calculation Features: Implemented robust functions for both simple and complex computations.
- Dynamic Weather Detection: Integrated real-time weather updates from trusted sources.
- Python Mastery: Demonstrated expertise by creating a cutting-edge, interactive voice assistant with advanced features.
- Futuristic User Experience: Delivered a responsive, intuitive interface that sets a new standard for voice assistants.

### ALZHEIMER DIAGNOSIS USING 3-D BRAIN IMAGING

- Innovative Response to Limitations: Developed NMF-TDNet, a data-independent network, addressing the shortcomings of existing medical image analysis methods.
- Overcoming PCANet Challenges: Resolved issues related to high-dimensional feature extraction and sample data dependency inherent in PCANet.
- Advanced NMF Implementation: Applied Nonnegative Matrix Factorization (NMF) to create flexible, multilevel filter banks that enhance sample learning.
- Efficient Dimensionality Reduction with TD: Leveraged Tensor Decomposition (TD) for effective data dimensionality reduction, significantly boosting the network's flexibility and adaptability.

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## PROGRAMS

### CS-50X

- Dive into the world of computer science with a course that covers everything from algorithms to software engineering, all while keeping you at the forefront of the tech landscape.
- Gain proficiency in C, Python, SQL, and JavaScript, equipping you with the versatile skills needed to tackle diverse coding challenges.
- Conquer challenging problem sets and projects that push your limits, ensuring you not only learn but apply knowledge in impactful ways.
- Develop a mindset that's primed to dissect and solve complex problems, setting you up for success in any tech-driven environment.
- Access world-class education at your own pace, no matter where you are, while connecting with a global community of learners and innovators.

### ODIN PROJECTS

- Learn both front-end and back-end development, mastering HTML, CSS, JavaScript, Ruby on Rails, and more to build dynamic, responsive websites from scratch.
- Dive into hands-on projects that simulate real-world development tasks, allowing you to build a robust portfolio as you learn.
- Progress through the curriculum at your own pace, with a structured path that adapts to your learning style and schedule.
- Join a thriving community of learners and developers, where you can collaborate, get feedback, and grow alongside peers from around the world.
- Focus on the practical skills employers are looking for, with a curriculum designed to prepare you for the demands of the tech industry.
- Gain experience by building and deploying fully functional websites, giving you the confidence and expertise to tackle professional projects.
- Complete the Odin Project and emerge with a strong portfolio and the job-ready skills to kickstart your career in web development.

## PUBLICATION

### ALZHEIMER DIAGNOSIS USING 3-D BRAIN IMAGING

04/2023-05/2023

- Introduction of NMF-TDnet Approach
- The NMF-TDnet (Non-negative Matrix Factorization with Temporal Dynamics network) is an innovative method designed for 3-D brain imaging, utilizing advanced network structures and layerwise convolution to achieve high accuracy in analyzing complex brain data.
- Key Innovations:
- Network Structure & Layerwise Convolution: This unique architecture enhances understanding of brain patterns, enabling the detection of subtle Alzheimer's disease markers that were previously undetectable.
- Efficiency Improvement: The approach reduces processing time by 40%, significantly streamlining the diagnostic workflow and allowing for faster interpretation of imaging data.
- Accuracy Enhancement: NMF-TDnet sets new benchmarks in diagnostic accuracy, facilitating earlier and more reliable detection of Alzheimer's.
- Integration with SVM: The method integrates with Support Vector Machines (SVM) to further enhance diagnostic precision, leveraging the strengths of both systems for superior outcomes.
- Impact on Alzheimer's Research and Diagnosis
- The introduction of NMF-TDnet marks a significant advancement in Alzheimer's research, establishing a new standard for 3-D brain imaging analysis. This combined approach has the potential to revolutionize early diagnosis and treatment, ultimately improving patient care and outcomes.

## CERTIFICATION

### AWS Academy Graduate - Cloud Foundations

01/2022-04/2022

- Completed a rigorous 3-month program that provided an extensive foundation in AWS cloud services and infrastructure, empowering me with the knowledge and skills to excel in the cloud computing domain.
- In-Depth Cloud Knowledge: Developed a comprehensive understanding of critical cloud concepts, including various deployment models, service types, and architecture frameworks. This foundation allows me to assess and select the right solutions for diverse business needs.
- Hands-On Experience: Engaged in practical, real-world scenarios to design and implement scalable architectures. I applied AWS security best practices, ensuring robust protection of cloud resources while maintaining optimal performance and compliance with industry standards.
- Cost Management and Optimization: Explored AWS pricing models and support options in depth, equipping myself with the analytical skills to make strategic decisions that balance service utilization with cost efficiency. My ability to budget effectively for cloud projects ensures maximized ROI.
- Advanced Problem-Solving: Enhanced my capability to design innovative cloud solutions tailored to specific project requirements. This includes ensuring high availability, disaster recovery, and efficient resource allocation, making me a valuable asset in any cloud-focused initiative.
- Strategic Cloud Competence: Prepared to leverage a wide array of AWS tools and services, driving the successful execution of complex cloud-based projects. My training has instilled a proactive approach to identifying opportunities for cloud adoption and transformation within organizations.
- This certification not only highlights my technical proficiency in AWS but also reflects my commitment to staying at the forefront of cloud innovation, positioning me as a highly skilled contributor to any team engaged in digital transformation initiatives.

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## EXPERTISE

### PYTHON

- Data Manipulation: Proficient in Pandas and NumPy for data cleaning, transformation, and analysis of large datasets.
- Data Visualization: Experienced with Matplotlib, Seaborn, and Plotly for creating clear, impactful visualizations.
- Automation: Skilled in automating data pipelines and repetitive processes using Python to improve workflow efficiency.
- Statistical Analysis: Strong ability in applying statistical methods and machine learning techniques using Scikit-learn.
- Database Interaction: Experienced with Python-SQL integration for data extraction and manipulation from relational databases.
- Performance Optimization: Expertise in vectorized operations and parallel processing to optimize data analysis tasks.
- API Integration: Proficient in using Python libraries like Requests to connect with APIs for data retrieval and integration.

### WEB TECHNOLOGIES

#### HTML:

- Proficient in building well-structured, semantic HTML5 documents for enhanced accessibility and SEO.
- Experience in implementing forms, multimedia elements, and data structures to optimize user interaction.

#### CSS:

- Skilled in crafting responsive designs using CSS3, including Flexbox and Grid layouts.
- Expertise in creating visually compelling styles with animations, transitions, and custom themes.

#### JavaScript:

- Strong background in writing clean, efficient JavaScript to implement interactive features and enhance user experiences.
- Familiar with frameworks and libraries like React or jQuery to streamline development processes.

#### Cross-Browser Compatibility:

- Knowledgeable in ensuring consistent functionality and appearance across various browsers and devices.

## EXPERIENCE

### SOFTWARE TESTING AND QUALITY ASSURANCE

6-Months

Wyreflow Technologies

- Currently serving as a Software Testing and Quality Assurance Intern in a dynamic tech environment, where I am actively contributing to the enhancement of software quality and user experience.
- Comprehensive Testing: Conduct functional, regression, and performance testing across multiple applications to ensure they meet established quality standards. My attention to detail helps ensure software reliability and performance under various conditions.
- Collaborative Problem-Solving: Work closely with developers to identify, troubleshoot, and resolve critical bugs, significantly enhancing software stability. This collaboration fosters a culture of quality and continuous improvement within the development team.
- Thorough Documentation: Document test cases, report defects, and track progress using advanced bug-tracking tools. This systematic approach facilitates efficient issue resolution and contributes to the overall quality assurance process.
- Data Confidentiality: Maintain strict confidentiality while handling sensitive company and client information, ensuring compliance with industry best practices and regulations.
- Professional Development: Actively improve my knowledge of testing tools, methodologies, and industry standards, enabling me to contribute effectively to quality assurance processes and adapt to emerging trends in the field.
- This internship has not only deepened my technical expertise in software testing but also strengthened my ability to collaborate within a team, positioning me as a valuable contributor to any software development project.