

# MUHAMMAD ZAIN HASEEB

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## SUMMARY

I am an enthusiastic and detail-oriented individual with a passion for technology and problem-solving. With strong analytical skills and a commitment to meeting deadlines, I excel at tackling complex challenges. I enjoy exploring new fields, particularly in web development and emerging technologies such as AI/ML. Currently, I am in my 8th semester at Forman Christian College, pursuing Bachelor's in Computer Science.

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## WORK EXPERIENCE

### Netsol (PVT) LTD.

July 2024 - Sep 2024

#### *Intern (AWS & AI/ML)*

- Developed RESTful APIs using AWS API Gateway.
- Implemented serverless functions with AWS Lambda using Node.js and Python (Boto3).
- Managed data storage and retrieval using Amazon DynamoDB.
- Contributed to full-stack development with AWS services.
- Utilized various LLM models under AWS Bedrock, including Meta LLaMA for chat and Stable Diffusion 3 for image generation.
- Monitored and optimized application performance and resource usage.

### Mindstorm Studios

Jun 2023 - Aug 2023

#### *Game developer fellowship*

- Developed games using Unity and C#.
  - Implemented core game mechanics and user interfaces.
  - Optimized game performance for smooth gameplay.
  - Worked in a team environment to deliver projects on time.
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## EDUCATION

### Bachelor's in Computer Science

Sep 2021 - Sep 2025

#### Forman Christian College University

- **Relevant Coursework:** Object Oriented Programming (Python), Data Structures and Algorithms, Probability and Statistics, Database Systems, Software Engineering, Linear Algebra with Computational Applications (Python), Software Quality Assurance, Machine Learning and Deep Learning (Python), Web Application Development (Html, CSS, JavaScript, React-Js, Django Rest Framework)

### A Levels

Sep 2018 - Sep 2020

#### Beaconhouse Defense Campus

- **Relevant Courses:** Maths, Physics, Chemistry

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## PROJECTS

### DeepSight: Deepfake Detection Using Multi-Attentional

Sep 2024 - Present

#### Final Year Project

- Created a deepfake detection prototype using CNN + RNN (PSO) trained on DFDC and Face Forensic++ datasets. Optimized performance with data preprocessing and fine-tuning. Developed a Django web app and web extension for easy detection.

### Recommendation System | NumPy, Seaborn, Matplotlib, Scikit-learn

[Github](#)

- Developed an SVD-based recommendation system to predict user purchases, evaluated using F1 score and visualized purchase patterns with Seaborn and Matplotlib.

### Audio Classification | Pandas, NumPy, Librosa, Scikit-learn, Joblib

[Github](#)

- Developed an audio classification system using MFCC features, achieving 89.4% validation accuracy with Random Forest as the top model, and evaluated using k-fold cross-validation.

### Whole Sale Management System | MongoDB, Express-Js, Node-Js, React-Js

[Github](#)

#### Software Engineering Course Project

- Developed an fully responsive design. inventory order management CRUD application with user management

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## ADDITIONAL INFORMATION

- **Languages:** Python, JavaScript, C, C#, Ms SQL, MongoDB
- **Technologies:** Oracle VM, MongoDB, My SQL, ReactJS, Django, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Keras, PyTorch, Node-Js, Git, Github
- **Certifications:** Introduction to Git and Github (Google), AWS fundamentals, AWS serverless, Javascript Es6 (Coursera), Rookie Game Jam (Mindstorm Studios), Introduction to SQL (Datacamp), Joining Data in SQL (Datacamp)
- **Extra Circular Activities:**
  - Assistant Director Logistics Forman Islamic Council (2024 - 2025)
  - Assistant Director Security IEEE Fccu Branch (2023 - 2024)
  - Security Member FORMUN (2023 - 2024)
  - Security Member Omni Life Fccu (2022 - 2023)