Syed Arfan Hussain

Computer Engineering Graduate

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Professional Summary

Passionate about AI-driven innovation and robotics, I am eager to contribute to cutting-edge projects that blend intelligent automation with real-world impact. I aim to apply my skills to design and develop smart, scalable systems that push the boundaries of technology.

Experience

Computer Engineering Intern (May 2024 - July 2024)
(At the Space Artificial Intelligence Lab)
SAASST (Sharjah Academy for Astronomy, Space Sciences and Technology)

- Collaborating with a multidisciplinary team to develop AI algorithms and models for space data analysis.
- Conducting research on the application of machine learning and deep learning techniques to improve the accuracy of satellite image processing.
- Assisting in the integration of AI solutions with existing space science frameworks and tools.
- Preparation of technical reports and presentations for academic and professional audiences.
- Projects:
  - Individual Projects:
    - Meteor Shower Prediction using Python Pandas
    - ML Predictor for Rocket Launch Delays
    - Using CNNs for Image Classification
  - Team Projects:
    - Developing object detector for astronomical images

Project Intern (January 2023 - May 2023)
(For a PhD Graduate)
AUS (American University of Sharjah)

- Worked closely with a PhD graduate on a blockchain project for the healthcare sector.
- Coded a program in Solidity that checks the temperature of the vaccines stored and sends a report over a regular interval of time.
- Used Oracle's Provable Service to obtain the temperature data from the hardware oracle and send an alert if the temperature falls below a certain threshold.

Competitor (October 2022 -November 2022)
(Pentesting Competition 2022)
CPTC (Collegiate Penetration Testing Competition)

- Competed with a group of 4 colleagues in the competition and placed 2nd regionally.
- Launched attacks on a simluated network in order to test it's strength.
- Also performed social engineering in order to create and send a phishing email to the admins in order to get access to their credentials.
- Created a 40 page concise and well developed report of the findings.
- Invited to take part in the finals (held in the USA), as a wildcard.

- **Senior Design Project (AUS)**
  - Designed and developed an AI-powered wearable solution using Vuzix smart glasses to support hearing-impaired users through real-time speech transcription.
  - Integrated machine learning for speaker identification and sentiment analysis using Core ML and Swift.
  - Led the implementation of noise cancellation and text display systems for enhanced accessibility and user experience.
  - Collaborated in a multidisciplinary team to build a mobile-app-connected prototype focused on inclusive assistive technology.
- **Generative AI Fundamentals (Google Cloud)**
  - Completed the Generative AI Fundamentals course by Google Cloud, focusing on key aspects of generative AI technologies.
  - Acquired knowledge in the principles and applications of generative AI within the Google Cloud ecosystem.
  - Gained practical skills in implementing generative AI solutions and understanding their impact.
- **CMP 305 - Data Structures & Algorithms (AUS)**
  - Mastered abstract data types and algorithms, covering fundamental structures like arrays, linked lists, stacks, and queues, as well as advanced ones like trees, hash tables, heaps, and graphs.
  - Focused on algorithms for searching, sorting, and recursive programming.
  - Completed practical programming assignments for hands-on experience.
- **IEN 301 - Innovation & Entrepreneurship Mindset (AUS)**
  - Learned design thinking and entrepreneurship, including user empathy, problem reframing, ideation, and prototyping.
  - Studied lean-startup methods, go-to-market strategies, and effective pitching and presenting skills.
  - Developed an innovation and entrepreneurship mindset focused on sustainability and leadership for interdisciplinary teamwork.

Education History

Bachelor of Computer Engineering
Institution: American University of Sharjah
2021 - 2025

- Outstanding Student Scholarship
- Active Student Scholarship
- Residential Assistant, KL Mens Dorms
- Deputy Director of External Relations - AUSMUN 2025
- President, Neurscience Society
- Media Coordinator, Japanese Cultural Club

High School Diploma
Institution: New Middle East International School
2008 - 2021

- Grade 12: 93%

Technical Skills

- Python, C++, Java, SQL
- HTML, CSS
- scikit-learn, TensorFlow, Keras, OpenCV
- Pandas, NumPy, Matplotlib
- Google Cloud, Azure, Oracle Provable, Git, VS Code
- Office 365, GitHub, Jupyter

Soft Skills

- Teamwork
- Time Management
- Leadership
- Adaptability
- Creativity
- Communication

References available upon request.