

Aditya Chatterjee

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EXPERIENCE

Undergraduate Team Leader @ Team FlyEagle

March 2024 – April 2024

- Coordinated 10+ students from Khalifa University and the Beijing Institute of Technology at a first-of-its-kind competition.
- Worked on extracting onboard LiDAR, Radar, Camera Telemetry to support path planning via ROS Nodes on Internet Protocol.

Abu Dhabi Autonomous Racing League (a2rl.io)

LiDAR, Radar, and Image-based CV • Path Planning • Autonomous Vehicles

Team HackPulse

October 2024

- Algorithmic problem-solving across various domains to solve arduous coding problems under an immense time constraint.
- Coordinating closely with teammates to develop innovative solutions within a highly competitive environment and represent KU.

12th Gulf Programming Contest

Java, C, C++, Python • Algorithmic Problem Solving • Team Collaboration

Team HackPulse

October 2024

- Created 3000+ image dataset for robust and all-round model training to cover all edge cases and obtain remarkably high accuracy.
- Developed various bounding box object detection models to be deployed onboard the International Space Station (ISS).

5th Kibo Robot Programming Challenge (JAXA, MBRSC, NASA)

Android Studio, APKs • Java API Integration • TensorFlow Lite

Cybersecurity Competitor

January 2024

- Multi-day Hackathon consisting of 14 key tasks investigating a major IP-based security breach on a Windows 10 virtual machine.
- Completed the competition with a final score of 98% and was awarded third place by chairman of the UAE Cybersecurity Council.

Capture-the-Flag @ Khalifa University Cyber Security Academy

PowerShell • EventViewer • Malware Detection

Head of Artificial Intelligence and Information Technology

November 2023 til Date

- Deployed LLM-based CV formatter to format client CVs worth \$95k, developed data dashboards, APIs for web-integration of SaaS.
- Responsible for implementing AI

Tabashir HR Consultancy (tabashir.ae)

OpenAI LLM APIs • Google Cloud Console • SQL

Marine Object Detection, Path Planning and Hull Construction

November 2023 – February 2024

- Created a dataset and trained an object detection model to differentiate between goals and avoid classes and obstacle avoidance.
- Used obstacle detection with stereo camera setup and bounding-box estimation to guide the USV via a path-planning algorithm.

2nd Emirates Robotics Competition

Unmanned Surface Vehicles • Stereo Camera Setup • Object Detection

EDUCATION

Khalifa University

Bachelor of Science in Computer Engineering, Artificial Intelligence Track

\$130,000 Presidential Merit Full Scholarship, Photography Club Events Chair, Study Abroad Student Mentor

Abu Dhabi, UAE

2021 – 2025

Goldsmiths, University of London

Bachelor of Applied Science in Computer Science, Machine Learning and Artificial Intelligence Specialism

Web Development • Computer Security • Software Design and Development • Natural Language Processing • Intelligent Signal Processing

London, UK

2022 – 2025

Study Abroad Semester

Tandon School of Engineering, New York University

Data Structures and Algorithms • Discrete Mathematics • Introduction to Sociology • Spanish I

New York City, NY, USA

January – May 2023

CERTIFICATIONS

Data Analysis Fundamentals Nanodegree

Udacity • 2023

- Gained Proficiency in the use of Business Intelligence and Data Science Tools such as PowerQuery, PowerBI and Excel.

Power Electronics Reliability Micro Course

Khalifa University • 2023

- Achieved Power Electronics Reliability mastery, optimizing security, safety, and efficiency in energy and power systems.

INVOLVEMENT

Events and Media Chair

Photography Club

Khalifa University

September 2022 – Present

- Organized Events at National Day Celebrations and University Club Fairs boosting Club Membership by 400+%.
- Attained Sponsorship of Grand Stores, largest retailer of Photography Equipment in the UAE.

Microsoft Student Ambassador Community Influencer (ID #363780)

Microsoft MVP Communities

June 2024 til Date

Microsoft Azure • Generative AI/OpenAI APIs • Startup Fundamentals

- Completed Technical Training of 20 Modules Centered on Microsoft Azure, Data Science, Generative AI, and Startup Theory.

Bootcamp Member

NYU Tandon LeetCode Bootcamp

New York University

January 2023 – May 2023

- Practical Experience in Data Structures, Search Algorithms, and Dynamic Algorithms such as Informed and Uninformed Searches.

SKILLS

Front End: CSS, HTML, JavaScript **Back End:** C, C++, Git, Java, Keras, TensorFlow, Python, ROS2 **Hardware-Based:** Assembly, Verilog
Desk Skills: Canva, Excel, Word, PowerBI, Ubuntu/Linux **Soft Skills:** Adaptability, Communicator, Leader, Perseverance, Self-Starter
Languages: English (Native), Arabic (Working), Hindi (Working), Spanish (Working), Marathi (Working), French (Intermediate), Bengali (Beginner)