Rafey Ahmed - Software Engineer

Email: syedrafey448@gmail.com   **Phone number:** +49 15510088094   **Website:** https://rafey1104.github.io/Portfolio/

LinkedIn: https://www.linkedin.com/in/rafey-ahmed-8b49a5299/   **GitHub:** https://github.com/rafey1104

● PROJECT

- **Mobile Warehouse Robot -** In this project, I developed a Warehouse Robot integrated with ROS 2, Gazebo, and python.
  - **Configuration:** Developed model configuration files and mesh files for the robot.
  - **Integration:** Integrated ROS 2 with Gazebo to enable communication and control of the robot.
  - **Simulation:** Built a virtual warehouse environment for the robot to navigate and perform tasks.
  - **Control Development:** Created ROS 2 nodes for controlling the robot's movements and estimating its position.

  Link: https://github.com/rafey1104/mobile_warehouse_robot

- **Two wheeled Robot -** This project focuses on creating a vehicle simulation in Gazebo using an SDF (Simulation Description Format) file. The simulation features a vehicle with a differential drive system, allowing for custom keypress-triggered motion

  Link: https://github.com/rafey1104/two-wheeled-robot

● WORK EXPERIENCE

Apr 2022 – Mar 2024   Hyderabad, India
SOFTWARE ENGINEER   **OLIVE IDEAS LAB PVT LTD**

- Designed and coded efficient web app backends with a 20% efficiency improvement through information retrieval best practices.
- Leveraged MERN stack, C++, and Java to develop highly performant backend solutions (25% boost) and maintainable code (15% increase).
- Optimized cloud applications on Heroku, utilizing CI/CD, scaling, automation tools, and add-ons for significant performance gains.
- Experience working in Agile, Scrum.

Nov 2021 – Apr 2022   Hyderabad, India
SOFTWARE DEVELOPER INTERN   **OLIVE IDEAS LAB PVT LTD**

- Contributed to the design and implementation of RESTful microservice architectures, emphasizing Distributed Applications and Distributed Systems.
- Enhanced scalability and maintainability through best practices in Enterprise Systems.
- Actively contributed to the documentation and educational content, sharing insights and best practices with the team to enhance collective knowledge.

● PUBLICATIONS

[1] Harsh Patel, Syed Aayaat Ullah, **Rafey Ahmed**. Human Face Detection Using Classification Algorithms. International Journal of Scientific Research and Engineering Development(IJSRED)-– Volume 4 Issue 5, Sep- Oct 2021

[2] **Rafey Ahmed**, Osman Ali, Yousuf Ali. Web Based Career Guidance . International Journal of Scientific Research and Engineering Development-– Volume 6 Issue 3, May-June 2023

TECHNICAL SKILLS

Languages:	C/C++, Java, JavaScript, Python.
AWS services	AWS EC2 , AWS S3, AWS Redshift, AWS lamda, AWS Glue, AWS Cloudwatch, AWS DynamoDB
DevOps:	Docker, Jenkins. Kubernetes
Databases:	MongoDB, SQL, MySQL, Redis.
Cloud:	AWS, GCP.
Others:	Linux, Git, GitHub, ROS2, Gazebo

EDUCATION

Masters of Science (ICE) | TU Darmstadt - 1 semster* | Darmstadt, Hessen, Germany | Oct 2024 - Present

Bachelor of Engineering (IT) | Osmania University - 8.16/10 | Hyderabad, India | Aug 2019 - Aug 2023

Intermediate(MPC) | TSBIE - 921/1000 | Hyderabad, India | June 2017- Apr 2019

Metric(10) | SSC - 9.3/10 | Hyderabad, India | June 2016- Apr 2017

LANGUAGE SKILLS

Mother tongue(s): **URDU & HINDI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Production	Spoken Production	
ENGLISH	C1	C1	C1	C1	B2
GERMAN	A1	A1	A1	A1	A1

ACHIEVEMENTS

- I am the author of a weekly newsletter in the DevOps and Cloud space named "DevCloud Dispatch" which has over 12k subscribers on the Linkedin.
  - **Link** - https://www.linkedin.com/build-relation/newsletter-follow?entityUrn=7164059371834912769

- I worked as Co-Chair/Advisor (June 2022- July 2023) in the governing body of the ACM MJCET were in I organized Technology Events at my institution and mentored a lot of students to help them get into tech.