



# Muhammad Sohaib Ashraf

## Software Engineer

Software Engineer with several years of experience. Master in Artificial Intelligence and Robotics, as well as a bachelor's degree in Software Engineering. Ambitious to prove my worth in the development of advanced robotic technologies. Experienced in developing scripts using ROS, Isaac SDK, Python, C++, AI, and ML algorithms. Additionally, I am a competent developer with expertise in Unity 3D, C#, MATLAB, R, and PHP.



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Indonesia



## WORK EXPERIENCE

### Software Engineer Cube Discipline

03/2022 - Present

Pakistan (Hybrid)

#### Achievements/Tasks

- Working on some applications to introduce Artificial Intelligence.
- Developing AI based job hunting algorithm.
- Developing customized user experience.

### Robotic Software Engineer Epazz, Inc

03/2021 - 03/2022

Pakistan (On-Site)

#### Achievements/Tasks

- Defining software requirements and carried out design procedures from scratch.
- Working on a project with the primary goal of enabling robots to learn how to cook.
- Working on multiple robotics and IoT projects using technologies.

### Software Engineer Tricasol

06/2020 - 03/2021

Pakistan (Hybrid)

#### Achievements/Tasks

- Worked with them to improve their pricing module using AI.
- Developed Personalized recommendation system.
- Implement data protection strategies.

### Software Engineer (Robotics) Oneberry Technologies

12/2019 - 05/2020

Singapore (On-site)

#### Achievements/Tasks

- Adapted three existing robotics projects to improve performance and add various new features.
- Semantic segmentation was used to enable the robot to navigate autonomously along a sidewalk with the additional capability of obstacle avoidance using RGB cameras.
- Worked on robotics vision and autonomous movement.

### Software Developer Cube Discipline

03/2017 - 12/2017

Pakistan (On-Site)

#### Achievements/Tasks

- Worked as a member of the web development team in the last semester of my Bachelor's degree and continue as fulltime after completion of the semester.
- Successfully completed and deployed many web-based business apps.
- Supervised a development team.



## EDUCATION

### MSc AI with Robotics University of Hertfordshire

2018 - 2019

Awarded with Distinction - Hatfield, United Kingdom

### BS Software Engineering University of Management and Technology

2013 - 2017

Awarded with CGPA 2.81 - Lahore, Pakistan



## SOFT SKILLS

Team Work

Communication

Research

Time Management

Report Writing

Problem Solving

Critical Thinking

Creativity

Adaptability

Self Learning



## TECH SKILLS

### Robotics

ROS1, ROS2, Isaac SDK, OpenCV, TensorFlow, Control System, Sensor Integration, SLAM, Gazebo, Path Planning

### AI and Machine Learning

Data Analysis, Python, TensorFlow, Deep Learning, Reinforcement Learning, Keras, PyTorch, Scikit, Yolo, QT

### Game Development

Unity3d, 3D Modelling

### Web Development

Laravel, CodeIgniter, jQuery, Bootstrap

### Software Languages

C, C++, C#, Python, Java, JavaScript, PHP, HTML, CSS, R, MATLAB, SQL, git, Lisp



## PERSONAL PROJECTS

### Arena ROSNav with NAV2 (07/2023 – 08/2023)

- Developed ROS1 and ROS2 packages that use ros nav2 using simple commander and using ROSBridge, it was integrated with Arena Rosnav, which is a modular ROS package for training and evaluating navigational algorithms of robots.

### Robotic Chef (03/2021 – 03/2022)

- Worked on developing a Robotic arm that help mimic the movement of a chef to cook a cousin with an optimal setting.

### KenOB2 (02/2020 – 05/2020)

- KenOB is a security Robot developed by Oneberry Technologies, Singapore. It patrols around the facilities to observe the movements and helps security department to get a better view of the facilities. Upgraded KenOB to kenOB2 by Integrating it some security features using Computer vision and Its movement with 3d SLAM.

### Sidewalk Robot (12/2019 – 02/2019)

- Worked on a Robot that can travel on a sidewalk with simple camera installed. Semantic Segmentation and some Computer vision algorithm were used.

### Evolutionary Flocking Shooter Robots (02/2019 – 06/2019)

- Developed a Robotic Simulation that help a flock of robot to learn discovering and finding the optimal secured path to a destination by avoiding the threats and eliminating them.

### Private Note (09/2018 – 01/2019)

- Developed an Android application that help user to save their notes in a encrypted and secure way on a cloud and retrieve in a simpler way while they can also download a password protected pdf of their note.

### EselloApp (03/2017 – 07/2027)

- Developed a Web Application that manage the overall operation of a ware house from Inventory management to delivery.

### Cheffu (05/2016 – 02/2020)

- Developed a web and mobile application that help cooking student to find a Cheff, whereas the Cheff can also get clients that pay to cook for them.

### Snake and Cake (09/2016 – 11/2016)

- Developed a game using OpenGL and C++ which is a replica of classic game "Snake Xensia"



## OTHER EXPERIENCE

### Robotics Lecturer

The Millennium Universal College

02/2023 – 05/2023

Lahore, Pakistan

### Door Supervisor

SM Facilities

07/2019 – 10/2019

Peterborough, United Kingdom

### Private Equity Intern

Graphite Capital

06/2019 – 06/2019

London, United Kingdom

### Support Assistant

Match Options

08/2018 – 12/2018

St Alban, United Kingdom

### Math Tutor

Illum Institute

03/2018 – 05/2018

Hemel Hempstead, United Kingdom



## TOOLS

Visual Studio Code

PyCharm

Adobe Photoshop

Maya

Microsoft Office

Android Studio

PHPStorm

Xampp

Gazebo

Unity3d



## LANGUAGES

English

Full Professional Proficiency

Urdu

Native Speaker

Bahasa Indonesia

Beginner



## INTERESTS

Gaming

Coding

Bedminton

Cricket

Travelling

Tech News

Robotics