Zaw Win Paing

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 Portfolio: https://barbatosv2.github.io | **GitHub:** https://github.com/BarbatosV2

EDUCATION

The University of Adelaide, Adelaide, Australia
 Bachelor of Computer Science (AI)
 July 2019 – June 2023

Eynesbury College, Adelaide, Australia
 Diploma of Computing and Information Technology
 October 2018 – June 2019

EXPERIENCE

AirLabOne – Machine Learning Engineer
 September 2024 – Present
 A company that makes lab products with ML capability

- Deploy machine learning model, labeling and training data for Object and Event detection (Computer Vision) and Audio Classification.
- AWS Kinesis, Rekognition and EC2 for data collection and for future model training.
- Reinforcement Learning for the machine automation (Nvidia Omniverse, ROS, Gazebo)
- Prototyping using Arduino, Jetson and ESP boards.

Flux Robotics, Adelaide, Australia – Computer Vision and Machine Learning Engineer
 November 2022 – September 2024
 A robotics company helping farmers through computer vision and robotic solutions

- Trained object detection and classification models to improve robotic vision systems.
- Ensured object detection accuracy by managing model performance and validation.
- Simulated robotic vision systems using Robot Operating System (ROS) for virtual testing.
- Developed camera calibration code for accurate distance measurement using trigonometric calculations.
- Worked with Laser Galvo and embedded systems for precision visual detection.
- Managed data collection, image labeling, and processing pipelines for machine learning.

Adelaide Myanmar Students Association – President
November 2022 – January 2024
A university community club promoting Myanmar culture among students and staff

- Organized fortnightly meetings, club events, and social media activities.
- Ensured transparent and efficient use of club resources.
- Led and coordinated with the executive team to improve engagement and participation.

SKILLS

Programming Languages:

Python, C++, Java, C#, SQL, HTML, CSS, R, JavaScript, TypeScript, Bash, PHP, MATLAB, Swift, Rust

Frameworks & Tools:

TensorFlow, PyTorch, OpenCV, ROS, CUDA, NumPy, Matplotlib, Scikit-Learn, Keras, Flask, Django, Docker, Kubernetes, Git, JIRA, Trello, AWS, Azure, Google Cloud Platform, PostgreSQL, MongoDB, SQLite

Leadership & Collaboration:

- Team Leader at Thate Pan Hub content development team
- President at Adelaide Myanmar Students Association
- Student Representative Council Officer at the University of Adelaide

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AWARDS

- **Ideation Project (December 2020):**
  Project: Thate Pan Hub – Teaching children computer science without technology. Won the "Most Effective Idea" award.

- **VR Project (July 2020 – November 2020):**
  Developed a bug-free VR game where players can spawn and build objects.
  Contributed to sound recording, 3D modeling, UI design, and programming using C#.

- **Tech eChallenge (July 2021 – November 2021):**
  Designed an AI scheduler to assist with time management and rescheduling. Achieved 4th place in the competition.