# Yehen Asuramuni

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## EDUCATION

**University of Moratuwa, Sri Lanka**                                                                      Feb. 2023 – Present
*Bachelor of Science (Hons) in Electronics and Telecommunication Engineering*                    *Dean's List: Semester 1*

**Wesley College, Colombo, Sri Lanka**                                                                            Grad–Feb 2022
*G.C.E Advanced Level (Mathematics, Physics, Chemistry, General English)*                        *4As / Z-Score: 2.1511*

## EXPERIENCE

**Co - Founder**                                                                                                      Nov. 2023 – Present
*Rysera Innovations*                                                                                                        *Colombo, LK*

- Co-founded and currently managing Rysera Innovations, a tech company specializing in web development and product design
- Led teams in micro mouse and IoT competitions, showcasing technical expertise and problem-solving skills.
- Spearheaded an environmental initiative within the company, which are reflected through the projects of the company

**Industrial Engineering Intern**                                                                                  Mar. 2022 – Jun. 2022
*Orginal Apparel (PVT) Ltd*                                                                                            *Bandaragama, LK*

- Oversaw the eyelet attaching department during production and implemented new strategies that increased efficiency to over 90 percent
- Acted as the officer on duty, and supervised the entire production floor during senior absences, successfully maintaining the predicted efficiency rates.
- Designed and implemented production line layouts to optimize efficiency and increase productivity

## PROJECTS

**Rysk Web App** | *HTML, CSS, Python, Flask, Scikit - Learn, Numpy, Pandas*                          June 2024 – Present

- Built a web app hosted at cancer-risk.onrender.com  which is able to predict the risk of Liver Cancer
- Filtered a dataset from Kaggle using pandas to suit the training of the model
- Trained a logistic regression model using scikit-learn
- Implemented the web app using Flask as the back-end, and simple HTML and CSS with the help of Bootstrap for the front-end

**Hike Buddy** | *Arduino IDE, Solid Works, Altium Designer*                                          March 2024 – Present

- Built a multi-functional torch specifically targeting hikers
- Designed the enclosure for optimum comfort for the user by studying hand postures
- Implemented a TDS Sensor to check for water purity at water sources and an Magnetometer module to assist in navigation
- Implemented an emergency SOS button for emergency cases

**RyCycle** | *Python, Flutter, Figma, Altium Designer*                                            December 2023 – Present

- Built a bin which incentivizes users to properly dispose of plastics
- Implemented plastic type detection using reflected IR spectrum, improving recycling accuracy
- Designed an integrated app which has a dedicated marketplace to redeem the rewards

**Beyond the Sight** | *Figma, Javascript, React, HTML, CSS*                                          January 2024 – Present

- Volunteered to develop a website for the National Eye Hospital of Sri Lanka
- Created a back end admin panel for easy use and management of the site
- Synced our external project 'OPDoc' to help bring online OPD bookings for the patients

## TECHNICAL SKILLS

**Languages**: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Dart
**Designer Tools**: Altium Designer, Solid Works
**Frameworks**: React, Node.js, Flask, React Native, Flutter
**Developer Tools**: Git, VS Code, Visual Studio
**Libraries**: NumPy, Matplotlib, Sci-kit Learn, Pandas