

EDUCATION

University of Moratuwa

B.Sc. Engineering (Hons.) in Civil Engineering Current GPA - 3.20/4.0 & Aug 2021 - Present

Rahula College Matara

GCE Advanced Level - Physical Science Stream

Z - Score: 2.5532

CONTACT

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Be behance.net/umal_manjitha

TECHNICAL SKILLS

Tools

SAP2000 | ETABS | Revit
Prokon | CSI SAFE
AutoCAD | Civil 3D
HEC-HMS | Figma
Git/Github | Android Studio

UMAL MANJITHA

Civil Engineering Undergraduate

Motivated undergraduate student from University of Moratuwa with strong technical skills. Seeking to utilize civil engineering knowledge and apply academic concepts to real-world infrastructure projects during employment. Practical experience with AutoCAD, Revit, HEC-HMS, Python and SAP2000. Passionate about sustainably designing and improving structural systems, buildings, and utilities.

WORK EXPERIENCE

- Trainee Civil Engineer State Engineering Corporation SL
 - Dec 2023 May 2024 | ETABS, MS Project, AutoCAD €
 - Gathered knowledge and hands-on experience in mass concreting, reinforcement works, site documentation, site planning, quality assurance

PROJECTS

● Assessing HEC-HMS model and Machine Learning Ø performance in predicting river discharge

Jun 2024 - Present | HEC-HMS, ArcGIS, Python Undergraduate Research Project

- Develop and calibrate a HEC-HMS model for simulating the discharge
- Develop and train machine learning algorithms for predicting the discharge
- Compare the performance of the HEC-HMS model and the machine learning algorithms
- Comprehensive Design Project Waterfront & Development in Galle

Oct 2024 - Present | HEC-HMS, ArcGIS, Geo Slope, ETABS Contribution to the project

- Stabilizing the 15m height steep slope at back of the site
- · Flood risk assessment for project site
- Field Visit Hydrological impact assessment
- · Making of the ETABS model for the building ongoing
- Shell Roof Design for Basketball Stadium &
 Sep 2023 | SAP2000, AutoCAD, Grasshopper
 - Gave three alternative designs for the roof structure
 - Define the shape of the structure by form-finding method
 - Calculate the thickness of the shell by central line theory
 - · Building a scale down physical model for testing
- Leo Scroll

Project scope

Jun 2021 | App Development, Flutter, Android Studio Key Responsibilities

- Member of App Development Team
- Developed a cross-platform mobile app 'Leo-Scroll'
- UI/UX Design for the app

Frameworks

Finite Element Analysis

Computational Fluid Dynamics

GIS | BIM

NumPy | SciPy | Pandas

Programming Languages

Python

JavaScript

MATLAB

C++

LATEX

Languages

English | professional proficiency Sinhala | native proficiency

Sports

Swimming
Badminton
Hockey

OTHER SKILLS

Leadership | Creativity
Graphic Design
3D Modeling & Design
Time Management
Team Work

REFERENCES

- Coursera Project Network
 - R Programming, Machine & Deep Learning
 - Mining Quality Prediction Using Machine & Deep Learning

EXTRACURRICULAR ACTIVITIES

- Civil Engineering Society University of Moratuwa
 - Public Relations Committee Lead | Jul 2022 Present
 - Maintenance of <u>ces.uom.lk</u> website, FB pages, LinkedIn
- Matara District Engineering Professionals Association

Lead Designer | Aug 2020 - Aug 2024

- Coordinate Flyer, Video Designs for the Events and Meeting in the society
- Leo Club of University of Moratuwa (Leo District 306A2)
 Member I Jun 2022 Jun 2023
- Member of the School Hockey Team
 Left Forward | 2014 2019

COURSEWORK & ADDITIONAL TRAINING

- ETABS & SAFE in the Structural Design | Udemy &
- Autodesk Revit & Robot Structural Analysis + Sheets + BOQ
- Introduction to Data Science Specialization | IBM & Tools for Data Science, Data Science Methodology, Databases and SQL for Data Science with Python
- Project Management Specialization | Google &
 Project Initiation: Starting a Successful Project, Project
 Planning: Putting It All Together, Project Execution: Running the Project
- AutoCAD | Sault College of Applied Arts &
- Civil 3D MEGA course for Civil Works | Udemy &
- Front-End Developer Professional Certificate | META 🔗

VOLUNTEERING EXPERIENCE

- IEEE Student Branch University of Moratuwa
 - Volunteered in "Rise Up Mora 2022" Contributed to develop the interview web portal.
 - Volunteered in ""Gammaddata IEEE Api" Technical Team
- EXMO | 2023
 - · Web and App Team of the Marketing Committee
 - Made 3D AR models for the App.
 - Department facilitator for Surveying division
- Civil Engineering Society UoM
 - Suhastha 2023 Member of the Marketing and Fundraising
 - Civil Padura 2025 Member of the Video Editing Team