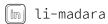
Madara Premawardhana

Software Engineer



portfolio.com









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EXPERIENCE

SIMCENTRIC TECHNOLOGIES (PVT) LTD. | SENIOR SOFTWARE ENGINEER

April 2022 - September 2022 | Colombo, Sri Lanka

- → Designed and developed a file uploading automation toolkit using REST-api for Geoserver using Python.
- → Worked with particle animation using Unreal Engine and physics.
- → Designed Reactive environmental aspects such as reactive snow accumulation and reactive water similar to real-world physics.
- → Unreal engine level design and development, character and vehicle modding and C++ programming of custom plugins.

| SOFTWARE ENGINEER

July 2020 - April 2022 | Colombo, Sri Lanka

- → Designed and implemented a toolkit which allows users to create realistic real world environments using Unreal Engine which uses Open Source Raster and Vector data (GeoTIFF and shapefiles of map attributes).
- → Worked with VR-Forces by MAK Technologies, VBS by Bohemia Interactive, Simulations, Unreal Engine by Epic Games, Blender, Houdini by SideFX, QGIS, Trian 3DBuilder, Visual Studio 2013, 2015, 2017 and 2019 by Microsoft.

Trainee Software Engineer July 2020 - April 2022 | Colombo, Sri Lanka

→ Obtained hands-on experience on creating an industrial, commercial off-the-shelf software with the knowledge of UI/UX, transferring software system between technologies from JavaScript ES6 code to Angular based front-end and back-end and teamwork with agility.

PROJECTS

GEOSERVER DATA AUTOMATION TOOL | REST-API, PYTHON

2022

→ python based project which automates the data uploading (including generation of workspaces, layers, styles etc.) on geoserver minimizing the repeating workload of a user.

TERRAIN GENERATION TOOL | C++, UE4

→ This is an Unreal Engine EdMode plugin which allows users to create real world terrains using open source data. Uses openly available OpenStreetMap data for the generation of real-world locations inside Unreal Engine.

UNDERGRADUATE PROJECTS

- → LSTM based intelligent system for identifying rainfall patterns and predicting water level patterns around a major reservoir in Sri Lanka. (Python)
- → Archiva Based Log Processing and Management: An Expert system which identifies abnormalities of transaction patterns of customers and notify the bank administration.(TypeScript, JavaScript, Xcode)

SKILLS

PROGRAMMING

Proficient:

C++ • C • Python • CSS • HTML

Experienced:

JavaScript • LATEX • Java

SQL • PHP

LIBRARIES/FRAMEWORKS

Familiar:

¡Query • Node.js • React

TOOLS/PLATFORMS

Git • Tortoise SVN • Docker

SIMULATIONS/CG

Proficient:

UE4 • UE5

Familiar:

Blender • Houdini • Sketchup

EDUCATION

UNIVERSITY OF BUCKINGHAM

PhD Computing (Reading) Oct 2022 - Present

UNIVERSITY OF MORATUWA

BSc. (Hons) in Information **TECHNOLOGY** Jan 2016 | March 2020 Second Upper

PROFESSIONAL

BRITISH COMPUTER SOCIETY

BCS HIGHER EDUCATIONAL QUALIFICATION Sep.2015 - Sep. 2017 Awarded Worldwide top candidate award