

Prasad Madushanka Dambure Liyanage

WebGIS Developer | GIS Developer | Front-end Developer

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[My Portfolio Website](#)

SUMMARY

Highly motivated WebGIS Developer/ GIS Developer/ Front-End Developer with a Master's degree in Geospatial Technologies and experience of 2 years in Front-End web development. Skilled in JavaScript (ES6), TypeScript, and React, with over 5 years of expertise in Spatial Data Science and Back-End techniques, including proficiency in SQL, NoSQL, Python, R, REST APIs, and geospatial tools like ArcGIS products and QGIS. Experienced in leveraging FME Desktop, AWS, and data visualization libraries such as D3.js, Plotly.js, Leaflet.js, Chart.js, GeoPandas, Seaborn, and Matplotlib. Committed to continuous learning, embracing new technologies, and delivering precise geospatial web solutions to drive informed decision-making.

EDUCATION

Master of Science in Geospatial Technologies **09/2022 – 03/2024**

(Under Erasmus Mundus Joint Master Degree Program)

•University of Münster, Germany •Universitat Jaume I, Spain

Bachelor of Science of Engineering **10/2011 – 03/2016**

(Earth Resources Engineering specializing in Remote Sensing and GIS)

Faculty of Engineering, University of Moratuwa, Sri Lanka.

EMPLOYMENT HISTORY

Front-End Web Developer **04/2023 – 10/2023**

Web Team, GeoMundus Conference 2023, University of Münster.

- Developed responsive web designs using modern HTML, CSS3, SCSS, and SASS.
- Optimized performance by reducing resource sizes, optimizing images, and enabling lazy loading.
- Enhanced user experience with intuitive navigation, accessibility, and user-friendly interfaces.
- Resolved browser-specific issues and improved performance using Chrome Developer Tools.
- Ensured code quality with linting tools like Stylelint and Prettier in VS Code.
- Managed version control and team collaboration via Git.
- Organized tasks and workflows using Trello for efficient project management.

GIS Analyst/ Mining Engineer **06/2018 – 09/2022**

Geological Survey & Mines Bureau, Sri Lanka.

- Streamlined file movement processes in the bureau through an efficiency-checking project using SQL, DBMS, and data visualization.
- Gathered and processed geospatial data, maintaining geodatabases through ETL workflows using GPS surveys, ArcGIS field tools, and Google Earth.
- Converted spatial data formats, including KML to SHP and CSV to GeoJSON, for improved usability.
- Designed and developed interactive and digital maps with ArcGIS tools to determine optimal mining areas and identify illegal mining operation.
- Conducted spatial queries and buffer analysis to assess nearby structures, highlighting blasting risk zones to keep the public informed.

- Provided GIS training and represented the organization in meetings with government agencies, private entities, and international companies.

GIS Analyst/ Mining Engineer

10/2017 – 06/2018

GSMB Technical Services (PVT) Ltd., Sri Lanka.

- Analyzed large spatial datasets with spreadsheets, employing pivot tables and visualizations for better organization and insights.
- Conducted drone surveys for aerial mapping in inaccessible areas, improving data collection and site analysis.
- Utilized ArcMap and AutoCAD like GIS and CAD tools for map creation, buffer zone calculations, utility mapping, and spatial data analysis to support decision-making.
- Managed projects using MS Project to track progress and ensure timely completion.
- Collaborated with engineers and project managers to define geospatial project requirements and ensure timely delivery of data and reports.

RELEVANT SKILLS

- **Experienced in web development techniques:** HTML5, CSS3, JavaScript(ES6), TypeScript, React, Bootstrap, jQuery
- **Experienced in other programming languages:** Python, R, SQL.
- **Experienced in database management systems:** MySQL, PostgreSQL, PostGIS, DynamoDB
- **Practical experience of Amazon web services:** Amazon S3, AWS Lambda, Amazon EC2, Amazon API Gateway, Amazon Route53, Amazon Cloud Front
- **Experienced with version control:** Git, GitHub
- **Practical experience of geospatial server management & API:** Geo server, REST API, Fetch, AJAX
- **Experienced in data visualization:** D3.js, Chart.js, Plotly.js, Leaflet.js, Geopandas, Matplotlib, Seaborn, Potly, dash, folium
- **Experienced with BI Tools:** Tableau, Amazon QuickSight
- **Proficient in GIS tools:** Arc GIS Pro, ArcGIS Online, QGIS.

RELEVANT PROJECTS

[Link for full Project Catalogue](#)

RELEVANT COURSES AND CERTIFICATIONS

Meta Front-End Developer Professional Certificate (Meta/ Coursera)	01/2025
Geo Web App Building with OS Tools (University of Twente, Netherlands)	11/2024
IBM Data Science Professional Certificate (IBM/ Coursera)	09/2024
Front-End Web Development (Faculty of IT, University of Moratuwa, Sri Lanka)	05/2023
Python Programming (Dep. of Computer Science Eng., University of Moratuwa, Sri Lanka)	05/2023

OTHER SKILLS, LICENSES AND INTERESTS

Language Skills: •English (Proficient) •German (A2) •Sinhala (Mother Tongue)

Licenses: •EASA certified UAS Remote Drone Pilot [A1/A3](#) and [A2](#) categories (Valid till 10/2029)

Volunteering: •Google Maps Update •UN Mapper •OpenStreetMap Update

Interests: •Volunteering •Travelling •Hiking •Drone Photography •Graphic Designing & Video Animation

Professional Membership: •Associate Member in Institute of Engineers Sri Lanka (IESL)

Relevant Soft Skills: •Written & Verbal Communication •Teamwork •Work Independently •Analytical thinking •Quickly adapt to new technologies •Strong problem solving ability