Arun Biju
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arunbiju.com

Professional Summary

A motivated civil engineer and geospatial analyst with expertise in GIS, remote sensing, and automation. Proficient in Python, ArcGIS Suite, PostGIS, and open-source GIS technologies such as GeoServer and MapServer. Strong background in structural analysis, spatial data processing, and database management. Adept at solving technical challenges and delivering innovative solutions in municipal planning and engineering projects.

Education

Graduate Certificate in GIS (2024 - 2025)
Centre of Geographic Sciences (COGS), NSCC, Nova Scotia, Canada

Graduate Certificate in Remote Sensing (2023 - 2024)
Centre of Geographic Sciences (COGS), NSCC, Nova Scotia, Canada

B.Tech in Civil Engineering (2016 - 2020)
Kerala Technological University, Kerala, India

Technical Skills

- **GIS & Remote Sensing:** ArcGIS Pro, ArcGIS Online, ArcGIS Enterprise, QGIS, GeoServer, MapServer, PostGIS

- **Programming & Automation:** Python, SQL, R, Arcade, Django, Web Development

- **Structural & Spatial Analysis:** AutoCAD, 3D Model Building, LiDAR Data Processing, Spatial Data Analysis

- **Database & Cloud:** Oracle Cloud, PostgreSQL/PostGIS, SQL Server, Linux & Windows Power User

- **Data Visualization & Reporting:** Power BI, Google Earth Engine, Dashboards, Technical Writing

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Work Experience

Truss Designer
Frank Illsley Woodworking (Jan 2024 - Present)

- Designed and modeled wooden truss components for structural projects.

- Ensured precision and durability in designs, collaborating with the team to meet project specifications.

Geomatics Engineer
Dream Nest Homes (Aug 2022 - Aug 2023)

- Collected and analyzed spatial data for civil engineering projects.

- Created detailed reports on distances, curvatures, and slopes to ensure project feasibility.

- Used GIS tools to assist in land planning and infrastructure development.

Technical Content Writer
Hive.io (Oct 2022 - Jan 2023)

- Wrote technical articles, guides, and reviews for a decentralized platform.

- Developed strong communication and research skills through content creation.

Jr. Python Intern (Part-time)
Inmakes (Feb 2021 - Dec 2022)

- Gained experience in web development, APIs, and data analysis.

- Worked on automation and scripting to enhance backend functionality.

Certifications

- Google IT Support Specialization (Coursera)

- Python Django Practical Guide (Udemy)

Projects & Portfolio

- Developed an **Earth Engine Web App** using the Solara framework to display interactive maps and analyze MOD17A3HGF dataset statistics for Nova Scotia.

- Published various GIS applications and automation tools showcased on **arunbiju.com**.

References

Available upon request.