

PERSONAL INFORMATION

Name **GAMMANPILA HIMIYAGE DON, Thilosha Nipunajith Gammanpila**
Address **292/8, Badulla Road, 90100, Bandarawela, Sri Lanka**
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E-mail **thiloshanipunajith@gmail.com**
Nationality **Sri Lankan**
Date of birth **19.06.1997**

WORK EXPERIENCE

- Dates (from – to) **January, 2025 – Present**
• Name and address of employer **SULECO (Pvt) Ltd, No 44, Beddagana South, Pitakotte, Sri Lanka**
• Type of business or sector **Engineering**
• Occupation or position held **Manager - Geospatial Solutions Division (Spatio SDS - Spatial Data Systems)**
• Main activities and responsibilities **Leading and managing geospatial system based solution development projects**
 - Spatio LGS - Colombo Municipal Council Land and Environmental Division Asset Management System
 - Spatio Agri - Agricultural asset management systems for local farmers, plantations
 - Urban Development Authority's Land Property Information System (LPIS)
 - Pavement Maintenance Management System (PMMS) for Katunayake International Airport
 - GIS Application for Mahaweli Consultancy Bureau
 - Forestry Management Information System (FMIS) for Browns PLC
- Dates (from – to) **July, 2023 – Present**
• Name and address of employer **SULECO (Pvt) Ltd, No 44, Beddagana South, Pitakotte, Sri Lanka**
• Type of business or sector **Engineering**
• Occupation or position held **Geospatial Developer**
• Main activities and responsibilities **Involved heavily in the following GIS based application development projects: Software Development, Requirement Analysis, Technical Research, Quality Assurance, Terms of Reference Preparation, Documentation, Coordinating**
 - Visigeo – GIS Visualization App (For 2D geospatial data)
 - Visigeo – GIS Visualization App (For 3D geospatial data)
 - GIX – GIS based Land Administration App
 - Site360 - AR-based Telco Tower Infra Management System
 - Drone Service Management Application for Local Farmers
- Dates (from – to) **January, 2023 – July, 2023**
• Name and address of employer **SULECO (Pvt) Ltd, No 44, Beddagana South, Pitakotte, Sri Lanka**
• Type of business or sector **Engineering**
• Occupation or position held **Trainee Surveyor**
• Main activities and responsibilities **Involved in the early stages of Visigeo Software Design and Development, GNSS surveying and post processing, land surveying, CORS solution, LiDAR surveying and post processing, Aerial surveying, Leica Geosystems short course series resource person**
- Dates (from – to) **February, 2023 – September, 2023**
• Name and address of employer **Project C Foundation, UK Engineering**
• Type of business or sector **Health**
• Occupation or position held **Research Intern**
• Main activities and responsibilities **Involved heavily in the following GIS based application development projects: Software Development, Requirement Analysis, Technical Research, Quality Assurance, Terms of Reference Preparation, Documentation, Coordinating**

	<ul style="list-style-type: none"> • Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities 	<p>September, 2022 – June, 2023 Norden Impact, Stockholm, Sweden Sustainability Development Research Analyst (Apprenticeship) Data structures and algorithms research and development for HYPERLEDGER precision agriculture projects</p>
EDUCATION AND TRAINING		
	<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national classification (if appropriate) 	<p>December, 2017 – July, 2023 Department of Remote Sensing & GIS, Faculty of Geomatics, Sabaragamuwa University of Sri Lanka Computer Programming (C, C++, PHP, HTML, CSS, Java, Java Script, Python), Advanced Mathematics (Descriptive Statistics & Probabilistic Functions, Inferential Statistics and Numerical Methods, Linear Algebra, Differential Calculus), Advance Physics (Mechanics, Electro Magnetic and Electro Static Fields), Optical & Microwave Remote Sensing, GIS Modelling, GIS Programming and Customization, Open-Source GIS & Web Mapping Bachelor of Science Honors in Surveying Sciences in Geographic Information System, Second Class Upper Division SLQL 6 (Sri Lanka Qualifications Framework Level) – Honors Bachelors</p>
PERSONAL SKILLS AND COMPETENCES		
MOTHER TONGUE		Sinhala
OTHER LANGUAGES		
	<ul style="list-style-type: none"> • Reading skills • Writing skills • Verbal skills 	English Good Good Good
SOCIAL SKILLS AND COMPETENCES		Proficient in living and working within diverse environments, exemplified by leadership as Chair of SEDS (Students for the Exploration and Development of Space) Sabaragamuwa University Chapter, organizing and managing projects with multicultural teams, fostering collaboration and cultural understanding.
		Demonstrated effective communication and teamwork in software development projects, collaborating with marketing, developers, and sales teams to deliver successful solutions in multitasking diverse environments
ORGANIZATIONAL SKILLS AND COMPETENCES		Involved in organizing voluntary projects with SEDS, such as NASA SpaceApps Colombo (2020-2022) where roles included Organizer, Media Coordinator, and Local Host. Led pioneering initiatives like SEDS SpaceArts 2021 and SEDS Open Astro Night, SEDS SpaceHack.
		Managed workshop events for SULECO (e.g., Techno '23, EXMO '23, ISM '23 and '24, Future Harvest '24), overseeing budget planning and media coordination.
TECHNICAL SKILLS AND COMPETENCES		Program Languages: C, C++, Python, Java, JavaScript, PHP, R Software: LiDAR360, ArcGIS Pro, QGIS, DJI Pix4D, AutoCAD, Autodesk Civil 3D, Adobe Photoshop, Illustrator, Clip Studio Paint Drone Piloting, GNSS Surveying, Optical Surveying Equipment, LiDAR Scanning
ARTISTIC SKILLS AND COMPETENCES		<u>Creative Arts</u> <u>Comic Writer and Artist</u> Short Movies

OTHER SKILLS AND COMPETENCES	<p>Podcast host, You Tube content creator</p>
ADDITIONAL INFORMATION	
GRADUATION THESIS	<p>Gammanpila, G.H.D.T.N. (2023). Landslide Risk Assessment and Dissemination Using Multi-Source Spatial Parameter Integration for High-Risk Zones of Sri Lanka.</p>
PUBLICATIONS	<p>Gammanpila, G.H.D.T.N., Rodrigo, U.H.G., Weerakoon, I.T., & Welikanna, D.R. (2023). A Combined Probabilistic Model and API to Support Landslide Risk Prediction and Dissemination. In: 9th International Conference of Sabaragamuwa University of Sri Lanka and 4th China - Sri Lanka Communication and Cooperation Forum Book of Abstracts, pp. 84. [1]</p> <p>Rodrigo, U.H.G., Gammanpila, G.H.D.T.N., Weerakoon, I.T., & Welikanna, D.R. (2023). A Web-Based Landslide Risk Dissemination Portal Incorporating Bayesian Probabilistic Risk Prediction Mechanism on Landslide Causative Parameters. In: RESCON PGIS Research Congress 2023 Proceedings, pp. 27. [2]</p>
ACHIEVEMENTS	<p>Global Nominee, Local Impact Award NASA SpaceApps Colombo 2021 (Team Leader, Pitcher, ML & Probabilistic Model, UI/UX Design) [3]</p> <p>Observation Category Winner NASA SpaceApps Colombo 2020 (Team Leader, Pitcher, Web Developer) [4]</p> <p>8th Place Indian Rover Design Challenge (IRDC) 2021, 17th Place European Rover Challenge (ERC) Finals 2022 (Scientific Task Team Member, Image Model, Post Processing)</p> <p>Finalist in following Hackathon events - HackX 2020, ActInSpace Colombo 2020, Asia Pacific Innovation Challenge 2021, Microsoft Imagine Cup SEA NM Regional Competition (Earth Category), Selected for Social Innovation Camp - HackaDev Social Innovation Challenge 2020</p> <p>Chair of the Year SEDS Sri Lanka Award Ceremony 2021</p>
NON-RELATED REFERENCES	<p>Dr. D.R. Welikanna, Senior Lecturer, Faculty of Geomatics, Sabaragamuwa University of Sri Lanka Email: drw@geo.sab.ac.lk Telephone: +9477 158 8007</p> <p>Prof. Saman Koswatte, Senior Lecturer, Faculty of Geomatics, Sabaragamuwa University of Sri Lanka Email: koswatte@gmail.com Telephone: +9471 445 8749</p>
ANNEXES	<ol style="list-style-type: none"> Book of Abstracts of the 9th International Conference of Sabaragamuwa University of Sri Lanka - ICSUSL 2023: https://www.icsusl.sab.ac.lk/ICSUSL_2023_Book_of_Abstracts.pdf RESCON – PGIS Research Congress 2023 Proceedings: http://www.pgis.pdn.ac.lk/rescon2023/docs/RESCON2023_Proceedings%20Final.pdf https://2021.spaceappschallenge.org/challenges/statements/identifying-risk-with-science-communities/teams/cifra/project https://2020.spaceappschallenge.org/challenges/observe/scanning-lifeforms/teams/hat-statics/project