

**NIRMAL ADHIKARI, PMP – (He/Him)**Halifax, Nova Scotia | +1 (782) 882-7351 | [nirmalbj7@gmail.com](mailto:nirmalbj7@gmail.com) | [nirmalad.com.np](http://nirmalad.com.np) | [LinkedIn](#) | [GitHub](#) | [ORCID](#)*"I thrive at the nexus of technology, innovation, and social impact—advancing projects that foster resilience, elevate user experiences, and shape a better future."***GLOBAL IT LEADER & COMPUTER SCIENCE RESEARCHER**

Relentless innovator with 5+ years of global success in **IT management, software development, and emerging technologies** (AI, ML, AR/VR, IoT). Winner of the 2018 Call for Code challenge. Proven track record in **leading cross-functional teams**, transforming business processes, and delivering cutting-edge digital solutions for multinational organizations and governments. Adept at bridging **industry** and **academia** to pioneer data-driven solutions that optimize costs, minimize downtime, and revolutionize user experiences.

**CAREER HIGHLIGHTS**

- **Revolutionized IT Ecosystems:** Slashed downtime by **80%** and boosted data integrity by **60%** through robust monitoring and auditing systems.
- **Global Program Management:** Oversaw high-impact, multi-country technology projects (USA, Nepal, Indonesia, Philippines, Colombia) for microfinance and disaster-resilience initiatives.
- **Award-Winning Innovation:** Key contributor to "**Post-Disaster Rapid Response Retrofit (PD3R)**", an AI-powered solution recognized at the 2018 Call for Code competition.
- **Strategic Cost Optimization:** Reduced software expenses by **60%** and minimized system breakdowns by **70%** via in-house digital transformation strategies.
- **Academic Excellence: PhD candidate & Research/Teaching Assistant** at Dalhousie University, driving impactful research in Human-Computer Interaction, AR/VR, Mixed Reality, and user-centric software engineering.

**PROFESSIONAL EXPERIENCE****Dalhousie University – Halifax, Canada****Research Assistant (Sept 2023 – Present)**

- Conduct comprehensive literature reviews to identify research gaps and cutting-edge solutions.
- Develop data-driven methodologies; contribute findings to peer-reviewed journal submissions.

**Teaching Assistant (Jan 2024 – Present)***Augmented & Virtual Reality / Software Engineering / Intro to Computer Programming / Designing User Interfaces / Human-Computer Interaction*

- Delivered lab sessions and technical workshops on emerging technologies, design principles, and software best practices.
- Assisted faculty in grading, project supervision, and implementing real-world learning modules.

**Institute of Crisis Management Studies (ICMS) – Kathmandu, Nepal****Lecturer (Part-Time), GIS & Remote Sensing (Mar 2023 – Aug 2023)**

- Designed and delivered interactive courses on spatial data analysis and geospatial modeling.
- Mentored students on advanced GIS projects, strengthening their research and analytical skills.

**Build Change – USA / Nepal****Technology Program Manager (Mar 2022 – Aug 2023)**

- Spearheaded the development of digital platforms for microfinance institutions in Indonesia and the Philippines and integrated builder guides for seamless supervision and reporting.
- Partnered with CISCO Foundation to build "Resilient Housing in a Box," leveraging analytics and automation to strengthen housing resilience.

**NFT Coding Hub Manager (Jan 2019 – Mar 2022)**

- Established a new IT team focused on frontier tech, cutting organizational downtime by **80%**.
- Optimized workflows by **40%** through Agile processes, resource planning, and change management.

**Information System Coordinator (Jul 2018 – Jan 2019)**

- Created IT policies that reduced software expenses by **60%** and introduced preventive maintenance, slashing system breakdowns by **70%**.
- Supported multi-country program success through robust IT architecture and consistent governance.

**Information System Officer (Feb 2018 – Jun 2018)**

- Integrated Big Data tools; defined data retention policies, enabling seamless collaboration across global teams.
- Led team of interns, pioneering solutions for data collection, analysis, and dissemination.

**GIS Intern (Oct 2017 – Jan 2018)**

- Developed a web GIS platform that improved project efficiency by **30%**.
- Leveraged ArcGIS/QGIS to enhance real-time data mapping and reporting.

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## Polaris Information Technologies – Kathmandu, Nepal

### IT Project Manager (Jan 2015 – Sep 2017)

- Oversaw 6 large-scale IT initiatives, consistently delivering on time and under budget.
  - Implemented risk management frameworks and transparent stakeholder communications, elevating project success rates.
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## VOLUNTEER EXPERIENCE

### Spatial User Interaction (SUI) Conference 2025

#### Web Chair (December 2025 – Present)

- Oversee the design, development, and maintenance of the official website for the SUI conference.
  - Collaborate with the organizing team to ensure seamless communication and accurate representation of the event online.
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### Virtual Reality Software and Technology (VRST) Conference 2025

#### Web Chair (December 2025 – Present)

- Manage the digital presence for the VRST conference, ensuring a user-friendly and visually appealing website.
  - Coordinate updates and maintain content accuracy for conference schedules, speaker details, and participant information.
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### University of the People

#### Volunteer Instructor (April 2025 – Present)

*Introduction to Computer Science | Programming Fundamentals | Communications and Networking | Data Mining and Machine Learning | Artificial Intelligence*

- Mentor undergraduate students in mastering core computer science and emerging technology concepts.
  - Provide academic guidance on programming (Python), networking (OSI/TCP/IP), data mining, and machine learning techniques.
  - Evaluate student performance, grade assignments, and offer constructive, individualized feedback to support learning outcomes.
  - Initiate and facilitate discussions, encourage peer learning, and foster an inclusive, engaging virtual classroom environment.
  - Contribute to course delivery, assessment, and continuous curriculum improvement within a global, fully online learning environment.
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## SELECTED PUBLICATIONS

1. Adhikari, N., Lilley, B., Radice, M., Fitzgerald, S., McLean, A., & Reilly, D. (2025, forthcoming). Combining Experiential and Spatial Data for Immersive AR Narrative Creation: A Phased Methodology. Proceedings of the International Conference on Interactive Digital Storytelling (ICIDS 2025), LNCS. Springer
  2. Goddy-Worlu, R., Adhikari, N., & Reilly, D. (2025). Virtual Reality for Active Aging: First-Time Experiences of Older Adults with First Steps. In Our Future is Aging: Multidisciplinary Research Informing People, Policy and Practice.
  3. Adhikari, N. et al. (2022). *Modeling of Optimal Deep Learning Enabled Object Detection and Classification on Drone Imagery*. ICAISS.
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## EDUCATION

- **PhD in Computer Science (In Progress)**

Dalhousie University, Canada

- **MSc in Information Technology (2022)**

The British College, Leeds Beckett University, UK

*Thesis: AI-Based System Architecture for Flood Forecasting*

- **B.Sc. (Hons) in Computing (2016)**

Islington College, London Metropolitan University, UK

*Final Project: Transport Management System with Driver's Android Tracking*

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## CERTIFICATIONS

- **Project Management Professional (PMP)** – PMI (2020)
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## AFFILIATIONS

- **Canadian Information Processing Society (CIPS)** – Member
  - **International Association of Engineers (IAENG)** – Member
  - **Information Technology Professionals Association (ITPA)** – Member
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#### CORE COMPETENCIES

- **Project & Program Management:** PMP | Agile | Scrum | Change Management
  - **Software Development:** PHP | Java | Python | Laravel | Django | ReactJS | VueJS | Augmented & Virtual Reality
  - **Data & Analytics:** Machine Learning | Deep Learning | Data Warehousing | Big Data
  - **GIS & Remote Sensing:** ArcGIS | QGIS | Web-GIS (Leaflet)
  - **Academic Research & Publication:** Peer-Reviewed Journals | Literature Reviews | Data Analysis
  - **Leadership & Collaboration:** Stakeholder Engagement | Cross-Functional Teams | Technical Training
  - **Project Tools:** MS Project | Jira | ClickUp | Primavera | G-Suite | MS Office
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#### LANGUAGES

- **Spoken Languages:** English, Nepali, Hindi
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