



CHATHURANGA SENANAYAKE

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ABOUT ME

Detail-oriented IT professional with experience in Quality Assurance, Web Development, and Software Testing. Proven ability to perform image and dataset quality validation, identify defects, and deliver accurate reports that support data quality and system improvements. Successfully designed, developed, deployed, and maintained responsive web applications, including hosting, optimization, and ongoing support. Proficient in Python, Java, C++, HTML, CSS, JavaScript, and Angular, with hands-on experience using testing and debugging tools such as Postman and Wireshark. Strong analytical, problem-solving, and communication skills, with a commitment to delivering high-quality solutions and contributing to organizational success.

WORK EXPERIENCE

June/2025 - December/2025

Scan Technologies Global (Pvt) Limited - IT Associate (Intern)

- Provided technical support by troubleshooting hardware, software, and network-related issues across the organization.
- Assisted in maintaining and monitoring company networks, systems, and software applications to ensure smooth operations.
- Conducted staff training sessions on IT systems, software usage, and best practices.
- Supported system administration activities, including software installation, configuration, and maintenance.
- Collaborated with team members to identify and resolve technical issues efficiently.
- Maintained documentation of IT procedures, incidents, and resolutions.
- Demonstrated professionalism, strong problem-solving skills, and effective communication while working with internal stakeholders.

5 months

Oral IT – Quality Checker

- Performed image processing quality checks and verified datasets for accuracy and consistency.
- Reported errors and collaborated with developers to improve algorithms and pipelines.
- Documented testing outcomes, enhancing QA skills in validation and defect reporting.

PROJECTS

ResearchGate DOI: [10.5281/zenodo.15024259](https://doi.org/10.5281/zenodo.15024259)

Final Year Project: Real-Time Adaptive NPC Behavior Modeling

- Designed AI models to enhance NPC behavior in dynamic game environments.
- Combined deep learning, reinforcement learning, and transfer learning for adaptive NPC actions.
- Implemented and tested in Unity ML-Agents, improving movement accuracy and action prediction.
- Explored practical applications for the gaming industry.

www.scanengineering.com

Web Development Project – Scan Engineering Website

- Built a responsive corporate website for an engineering company. (HTML, CSS, Figma)
 - Managed hosting, deployment, and maintenance.
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<https://chathurangasenananayake.github.io/portfolio/>

Portfolio Website

- Developed a fully responsive portfolio website showcasing professional experience, projects, technical skills, certifications, and achievements using modern frontend technologies. (HTML5, CSS3, JavaScript, Bootstrap)

AI Research Project

Vehicle Number Plate Recognition System (VNPRS)

- Developed an AI-based number plate recognition system for Sri Lankan vehicles achieving 96.2% detection accuracy and 93.5% OCR accuracy with real-time processing. (Python, YOLOv8, OpenCV, Tesseract OCR, Roboflow)

AI Research Project

AI-Based Customer Experience Enhancement for ISP Applications

- Researched and designed AI/ML solutions to improve customer experience in ISP network applications through adaptive AI models, reinforcement learning, and predictive analytics. (TensorFlow, PyTorch, Machine Learning, Reinforcement Learning, NLP, Predictive Analytics)

System Optimization Tool

CODM GameLoop 300 FPS Optimizer

- Developed a full-featured Windows desktop application to optimize Tencent GameLoop emulator performance for Call of Duty Mobile. Includes SQLite database injection, registry tweaks, power plan activation, network stack optimization, GPU scheduling, cache cleaning, and a priority-boosted launch script generator with backup/rollback support. (Python, Tkinter, SQLite, Windows Registry, PowerShell, Network Optimization)

EDUCATION

BSc (Hons) in Networking and Mobile Computing, Horizon Campus, Malabe (2021–2026) – CGPA: 3.12

G.C.E. Advanced Level Examination – 2019

G.C.E. Ordinary Level Examination – 2016

- Ethical Hacker – Cisco Networking Academy (2024)
 - Introduction to Modern AI – Cisco Networking Academy (2024)
 - Python Essentials 1 – Cisco Networking Academy (2024)
 - AWS Cloud Practitioner Essentials – Online Course, Completed [2024]
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