

BHANUKA UYANAGE

Software Engineer | MSc Computer & Systems Sciences | Data Science

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PROFILE

Master's student in Computer and Systems Sciences at Stockholm University with over three years of startup-driven full-stack development experience. Strong background in backend architecture, scalable systems, IoT prototyping, and applied machine learning. Experienced in leading projects from requirements gathering to deployment. Interested in data-driven systems, platform engineering, and intelligent software solutions.

TECHNICAL SKILLS

Programming: Python, JavaScript, PHP, Java, C

Backend & APIs: Node.js, Express, FastAPI, REST APIs, Spring Boot, Laravel

Frontend: React, Next.js, Vite, Tailwind CSS, Bootstrap, Radix UI

Databases: MySQL, PostgreSQL, Firebase, Prisma ORM

Cloud & DevOps: Docker, AWS (fundamentals), CI/CD pipelines, Linux

Data & ML: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy

NLP & AI: RoBERTa/BERT, RAG, MCP, LLM integration, prompt engineering

IoT: Raspberry Pi, sensor integration, microcontrollers

PROFESSIONAL EXPERIENCE

Visiting Instructor | University of Moratuwa

Sep 2025 – Jan 2026

- Designed and delivered a semester-long module on cross-platform mobile development (Flutter) and wireless communication concepts to ~30 undergraduate students.
- Bridged theory and practice by combining network principles with hands-on app development, enabling students to build and deploy performant mobile applications.

Lead Developer | IKON Labs

Sep 2022 – Feb 2025

- Architected and delivered 10+ client-facing production systems end-to-end, spanning e-commerce platforms, ERP systems, and data-driven web applications.
- Reduced deployment errors by ~40% by introducing CI/CD pipelines and standardising code review processes across a team of 4 developers.
- Owned client requirements gathering, system design, and post-launch maintenance, ensuring consistent delivery across projects with tight startup timelines.

Full Stack Developer | IKON Labs

Jun 2021 – Sep 2022

- Built and shipped multiple client web applications using React, Node.js, and MySQL, including a customisable jewellery ordering platform with Stripe payment integration.
- Developed an e-commerce platform for a local farm business, improving their order management and online visibility from zero digital presence.

PROJECTS

Job Risk Assessor

May 2026

- Full-stack app that fetches Swedish job ads via JobTech API and streams a risk assessment using RAG over MCP for employment-law context and OpenRouter LLM inference. Implements fallback RAG queries and real-time SSE token streaming to the UI.

Skills: Node.js, Express, React, Vite, RAG, MCP, OpenRouter, SSE

Link: github.com/BhanukaC/job-risk-assessor

RoleWise AMLR Engine

May 2026

- AI compliance training prototype that indexes policy PDFs, infers role-specific AML risks via RAG, and generates validated quarterly training paths grounded in AMLR article references. Includes structured LLM output, validation rules, and a human review workflow (approve/reject/regenerate).

Skills: Python, FastAPI, Next.js, TypeScript, RAG, Chroma, OpenAI/Gemini

Link: github.com/BhanukaC/rolewise-amlr-engine

Issue Tracker

Jun 2025

- Collaborative issue management dashboard with real-time statistics, advanced filtering, SSR, and full database integration built as a production-quality full-stack project.

Skills: Next.js, TypeScript, Prisma ORM, Radix UI

Link: github.com/BhanukaC/issue-tracker-next-js

Fake News Detection System

IEEE ICITR 2024

- Developed and published the fake news detection module of a group research project on identifying video-based forgeries and fake news in social media. Ensembled RoBERTa with Random Forest, outperforming single-model baselines. Published as main author at IEEE ICITR 2024.

Skills: Python, RoBERTa, Scikit-learn, NLP

Link: ieeexplore.ieee.org/document/10857752

EDUCATION

MSc in Computer and Systems Sciences | Stockholm University

Sep 2025 – Sep 2027

- Courses: Foundations of Data Science, IoT Services, Cyber Forensics, Information Security, Data Mining, Research Methodology, Enterprise Computing & ERP, Machine Learning.

BSc (Hons) in Information Technology | University of Moratuwa

2020 – 2024

- Second Class Upper Division • CGPA 3.33 / 4.2

CERTIFICATIONS & ACHIEVEMENTS

Certifications: PyTorch Fundamentals (DeepLearning.AI) • Introduction to AI Agents (DataCamp) • AI Engineering Specialization (Scrimba/Coursera) • NLP in TensorFlow (DeepLearning.AI) • Fine Tune BERT for Text Classification (Coursera) • TensorFlow for AI/ML/DL (DeepLearning.AI) • Meta Data Analyst (Meta/Coursera) • Frontend Developer React (HackerRank) • SQL Intermediate (HackerRank) • React Basic (HackerRank) • MySQL (TestDome) • Next.js 13 with TypeScript (Code With Mosh)

Achievements: Hidden Gem Award – IKON Labs (2023) • Top 10 – CodeSprint 7.0 (2023) • 3rd Place – SLIIT CodeFest (2021) • Merit Award – SLIIT CodeFest (2020) • Finalist – Sharp 0.1 Hackathon (2020) • Top 10 – Code Rush (2020)

LANGUAGES

English: Full Professional Proficiency

Sinhala: Native