

# Shanaka Anuradha

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**Software Engineer** with 3+ years of experience in **Artificial Intelligence** and **Full stack Development**, with a strong focus on System Architecture Design and end-to-end Software Development. Known for quickly learning and adapting to new environments, with numerous compliments received for writing clean, scalable, and stable code. Proven track record of academic achievement, including the highest Z-Score (3.4869/4.0) in the 2015 Sri Lankan Advanced Level Examination (Engineering Technology stream) and the "Student of the Year 2015" award at St. Thomas' College. Holds a bachelor's honours degree in Information and Communication technology (BICT) with Second Class Upper Honors and is currently pursuing an M.Sc. in Artificial Intelligence. Holds a national D visa with a valid work permit in Germany.

## Experience

NOVEMBER 2024 – DECEMBER 2024

**Artificial Intelligence Engineer | SIOS Technology, Inc. | Tokyo, Japan**

Fully Funded METI Government of JAPAN Japan Internship Program, <0.1% Acceptance Rate

- Developed a multilingual (English/Japanese) RAG-based chatbot from scratch using Python's FastAPI and LLMs to assist support engineers and clients.
- Conducted R&D to optimize the chatbot, improving the success rate from 90% to 93% through reranking techniques, query optimization, and model fine-tuning.
- Enhanced customer support efficiency by reducing manual support requests by 30–50% and cutting response times for 80% of queries by 50%.

AUGUST 2022 – JANUARY 2024

**Software Engineer | APUDOS Ltd. UK | Remote**

- Designed system architecture and developed full-stack solutions for 100+ smart locker devices, creating pixel-perfect UIs and automating parcel delivery.
- Built an advanced monitoring system, reducing response times by 80–90% and achieving 95% device uptime.
- Managed applications on AWS cloud and on-premises Linux servers and Provided 24/7 technical support, resolving 60% of tickets within 24 hours.
- Collaborated in Agile/Scrum teams, working with PHP (Zend), Python, JavaScript, MySQL, SQLite, Linux, AWS, and Git.

OCTOBER 2020 – JANUARY 2022

**Full stack Web Developer | NAZ360 Technologies, USA | Remote**

- Developed & maintained ERP systems as a Freelance Software Developer using Angular, PHP Laravel, MySQL, and REST APIs.
- Optimized performance by implementing Memcached, reducing response times by 50–80% during peak loads.
- Designed and executed complex real-time SQL queries on million+ record tables for efficient data processing.
- Integrated advanced features such as authentication, reporting, automated notifications, and Twilio-based telephonic systems.

## Skills

**Advanced** AI/ML Skills (Deep Learning, LLM, RAG, Reinforcement Learning, Multi-agent Systems, Data Mining, Data Processing) • **Advanced** System Architecture Design Skills • **Advanced** Full Stack Development Skills (Python FastAPI, Python Flask, PHP Slim, PHP Zend, Angular) • **Advanced** REST API Skills • **Advanced** Database Management Skills (MySQL, PostgreSQL, Firebase, MongoDB, SQLite) • **Advanced** Cloud Skills (AWS, GCP, Azure, Digital Ocean) • **Advanced** Version Controller Skills (GitHub, Bitbucket, Azure DevOps, Gitlab) • **Advanced** Linux Skills (Shell Scripting, Server maintenance) • Intermediate DevOps & CI/CD Skills (GitHub Actions) • **Intermediate** Project Management Skills (Scrum, Jira, Slack, Kanban boards) • **Intermediate** Automations Skills • **Intermediate** WordPress Skills • **Strong** Analytical Skills • **Strong** Teamwork Skills • **Strong** Leadership Skills • **Strong** Problem-solving Skills • **Strong** Communication skills

## Education

APRIL 2023 – SEPTEMBER 2025

**M.Sc. Artificial Intelligence | University of Erlangen–Nuremberg | Erlangen, Germany**

DECEMBER 2016 – DECEMBER 2020

**Bachelor of Information and Communication Technology (Hons) | University of Sri Jayewardenepura | Colombo, Sri Lanka**

1.81 GPA (German Scale) • Second Class Upper Division

## Publications

Bypassing Content-based internet packages with an SSL/TLS Tunnel, SNI Spoofing, and DNS spoofing (arXiv:2212.05447)

## Achievements

**All Island First Place** in Engineering Technology stream - GCE Advanced Level Examination 2015 • **Student of the Year** 2015 • **1st place**, Hackoverflow hackathon 2024 • **Merit Place**, "Hackme if you can" CTF 2018 • **4th place**, CloudHack Hackathon 2017 • **4th Place**, OUSL Impacto Robotic Competition 2017 • **"Most Popular Team"**, iHack 2017 Hackathon • **Represented SriLankan team** in Sakura Science Student Exchange Program 2016, in Japan

## Projects

SIOS Multilingual Chat Bot (RAG-Based) • Brainiacs Hybrid Artificial Intelligence Learning Box • SriLankan Face Generator - StyleGAN • Fine-tuning LLaMA 3 for Crypto Market Analysis • Apudos Parcel Delivery Management Systems • AbrioTools & AbrioLiving - Healthcare and Real Estate ERP Systems • Eggion - High School Exam Revision Organizing System • Employee Feedback and Rating Management System - Kriyo Project • Salesforce Automation

## Volunteering

• **Open-Source** Contributor • **President**: USJ FOSS Community (2019) • **Student Representative / Member**: Student Union (2018-2019) • **President**: ICT Societ of St.Thomas College (2014-2015) • **Founder Member**: CodeChamps Online Hackathon • **Founder Member**: J'pura TechTalks • **Technical Volunteer** - DevFest 2019 (GDG SriLanka)