



Shanaka Anuradha

Nationality: Sri Lankan **Date of birth:** 24/03/1995 **Gender:** Male

Phone number: (+49) 17615749507 **Email address:** shanaka95@gmail.com

WhatsApp Messenger: <https://w.app/uW1J5V> **LinkedIn:** <https://t.ly/bYw0M>

Website: <https://shanaka.vitaz.dev>

Website: <https://www.upwork.com/freelancers/~01c9c2775e9266257f>

Website: <https://www.hackerrank.com/profile/shanaka95>

Home: Georg-Hennch Strasse 33, 90431 Nürnberg (Germany)

ABOUT ME

A highly motivated and results-oriented professional with a distinguished track record in both academic and professional spheres. Secured the highest Z-Score of 3.4869 and achieved All Island first place in the 2015 A/L Examination, Engineering Technology stream - recognized as the most challenging exam in the Sri Lankan education system. Earned a **Bachelor of Information and Communication Technology (BICT) Honours** Degree with a Second Class Upper Division (3.46 GPA) from the Faculty of Technology, University of Sri Jayewardenepura. Currently pursuing an **M.Sc. in Artificial Intelligence** at the University of Erlangen-Nuremberg, Germany. Possessing over three years of experience as a Fullstack Web Developer, I bring a robust skill set and a commitment to excellence to any organization.

EDUCATION AND TRAINING

M.Sc. Artificial Intelligence

University of Erlangen-Nuremberg [04/2023 – Current]

City: Nuremberg | Country: Germany | Website: <https://www.fau.de>

Bachelor of Information and Communication Technology (Hons)

University of Sri Jayewardenepura [12/2016 – 12/2020]

City: Nugegoda | Country: Sri Lanka | Website: <https://www.sjp.ac.lk> | Final grade: Second Class Upper Division with a 3.46 GPA | Thesis: Generate Multi-Instrumental Progressions for Given Melodies Using Modified Generative Adversarial Networks (GANs)

Advanced Level Examination 2015

St. Thomas College [03/2006 – 08/2015]

City: Matale | Country: Sri Lanka | Field(s) of study: Engineering Technology | Final grade: Z-score of 3.4869 out of 4.0

CONFERENCES AND SEMINARS

[01/2024] University of Erlangen-Nuremberg, Germany

Seminar: Neuroscience-inspired artificial intelligence

- Completed the seminar on "Neuroscience-Inspired Artificial Intelligence" as part of the MSc in Artificial Intelligence program.
- Delivered a presentation on the research paper "A Neural Algorithm for a Fundamental Computing Problem" (Citation: S. Dasgupta et al.) during the seminar.

[05/2018] University of Colombo School of Computing

iFest 2k18 Conference Tech Conference on Information Security and Emerging Trends

[10/2019] Colombo

Disrupt Asia 2019 Sri Lanka's Premier Startup Conference and Innovation Festival organized by the ICT Agency of Sri Lanka

PUBLICATIONS

[2022]

Bypassing Content-based internet packages with an SSL/TLS Tunnel, SNI Spoofing, and DNS spoofing This research aims to find an alternative method to bypass ISP's Network traffic filters without using an HTTP injector.

HONOURS AND AWARDS

[01/2016] Ministry of Education Sri Lanka

All Island First Place - GCE A/L Examination

[04/2016] St. Thomas College, Matale

Student of the Year - 2015

[06/2016] Ministry of Education, Japan

Sakura Science Program - 2016 Honored to be selected for the Sri Lankan team participating in the Sakura Science Program 2016 in Japan.

[01/2024] BEST Erlangen e.V.

1st place - Hackoverflow hackathon Secured 1st place in a two-day hackathon organized by BEST Erlangen e.V. and iba AG.

- **Task:** Designed an AI-powered system aimed at reducing residential waste.
- **Team Effort:** Collaborated effectively within a team to develop and present the winning solution.

[10/2018] Sri Lanka Institute of Information Technology

Merit Place - "Hackme if you can" CTF 2018

[08/2017] University of Colombo School of Computing

4th place - CloudHack Hackathon 2017

[10/2017] Open University of Sri Lanka

4th Place - OUSL Impacto Robotic Competition 2017

[10/2017] University of Colombo School of Computing

Awarded the "Most Popular Team" title in the iHack 2017 Hackathon

WORK EXPERIENCE

Fullstack Web Developer (Remote)

APUDOS Ltd. [08/2022 – Current]

City: London | Country: United Kingdom

- Perform both frontend and backend development for embedded systems designed to automate parcel delivery and handling in large residential buildings.
- Develop pixel perfect UI's from provided UI designs to ensure high quality user experience.
- Monitor and maintain embedded devices to ensure seamless operation.
- Contributed to Site Reliability Engineering (SRE) by developing a monitoring system for a large number of embedded devices, including Raspberry Pi's, CCTV cameras, and remote servers.
- Configure and deploy applications on cloud and on premises Linux servers, ensuring reliable and efficient operation.
- Assist client relationship managers by resolving technical issues reported by clients.
- Utilize a diverse technologies including **PHP Zend, MySQL, Javascript, Git, BitBucket, REST, Bash, AWS, Trello, and Slack.**
- Active member of a Scrum team with regular meetings held in English, ensuring efficient project management and collaboration.

Lecturer (Visiting)

Faculty of Computing, Sri Lanka Institute of Information Technology (SLIIT) [07/2022 – 12/2022]

City: Kandy | Country: Sri Lanka

- Delivered lectures for courses including **Introduction to Computer Systems, Introduction to Computer Programming Techniques and Practises (ICPTP)**

Lecturer (Full time)

Faculty of Computing, Sri Lanka Institute of Information Technology (SLIIT) [02/2022 – 07/2022]

City: Kandy | Country: Sri Lanka

- Delivered lectures for courses including **Computer Systems, Data Structures and Algorithms (Lab), Information Technology Project (ITP)**
- Coordinated and evaluated second year student projects, providing personalized feedback to support their academic progress.
- Conducted lab sessions to provide hands-on experience and reinforce theoretical concepts.

Fullstack Web Developer (Remote)

NAZ360 Technologies [10/2020 – 01/2022]

City: Flagstaff | Country: United States

- Worked with a range of technologies including **Angular 8 and 12, AngularJS, PHP Laravel, PHP Slim, MySQL, Linux, Bash, REST, Typescript, Javascript, Git, BitBucket, and Jira.**
- Developed and maintained an ERP system for a USA based healthcare company, managing internal employees and clients.
- Designed the system architecture for two new systems: one for a healthcare company and another for a real estate company.
- Developed the new systems, integrating advanced features and ensuring seamless operation.
- Worked on a wide range of optimization, testing, and Site Reliability Engineering (SRE) techniques including Memcached, unit testing, and scheduled system checks.

- Implemented authentication, report generation, automated notifications, and managed telephonic systems using Twilio.
- Participate in regular Scrum meetings held in English, ensuring efficient project management and team collaboration.

Trainee Software Engineer

Codegen International (pvt) Ltd. [05/2019 – 09/2019]

City: Colombo | Country: Sri Lanka

- Contributed to the development of 'Kriyo', an internal employee management and social networking platform designed for employees.
- Developed an Employee Feedback and Rating Management System, improving internal performance evaluation processes.
- Utilized a diverse technology stack including **Angular, Java Spring Boot, Docker, MySQL, Apache Tomcat, AWS Cloud, and Jira.**
- Gained hands-on experience in full-stack development, cloud computing, and project management, reinforcing a robust foundation in software engineering principles and practices.

PROJECTS

SriLankan Face Generator - StyleGAN

- **Technologies Used:** Python, TensorFlow, StyleGAN, Web Scraping (developed in-house), NVIDIA Tesla V100 GPU
- Trained a StyleGAN model using a custom dataset of faces from Sri Lankan people.
- Developed a scraper to collect facial images from Facebook.
- Utilized NVIDIA Tesla V100 GPU for model training.

Apudos Parcel Delivery Management Systems

- **Company:** Apudos Ltd. - UK
- **Technologies Used:** PHP Zend, REST, Javascript, jQuery, HTML, CSS, Bootstrap, MySQL, Apache2, AWS, Linux, Trello, Kanban Boards, Bitbucket
- **Smartroom Application:** Developed all UIs with pixel-perfect designs based on provided specifications. Contributed to backend development alongside other developers.
- **Smartpod Application:** Worked on both the frontend and backend for the Smartpod embedded devices application used in Smartpod sites.
- **Smartlocker Application:** Contributed to the frontend and backend development for the Smartlocker embedded devices application used in Smartlocker sites.
- **Parcel Audit Application:** Developed the frontend and backend of a new mobile web application used for auditing parcels across all site types.
- **Monitoring System:** Developed a new system for monitoring all embedded devices such as Raspberry Pi and other devices like CCTV cameras. This system also monitors remote servers and sends instant notifications via SMS/email to selected employees.

AbrioTools & AbrioLiving - Healthcare and Real Estate ERP Systems

- **Company:** NAZ360 Technologies - USA
- **Technologies Used:** Memcached, Angular 12, AngularJS, PHP Laravel, PHP Slim, HTML, CSS, SCSS, Bootstrap, MDB Angular, MySQL, Docker, Apache2, Twilio, Google Cloud, Linux, Jira, Kanban Boards, Bitbucket, REST

- Designed the software architecture for two comprehensive ERP systems: AbrioTools for healthcare management and AbrioLiving for real estate management.
- Responsibilities included full-stack development, integration of RESTful APIs, and deployment on Google Cloud.
- Utilized Apache2 for web server management, and Twilio for telephonic systems.
- Implemented frontend and backend solutions ensuring seamless integration and high performance.
- Deployed systems using Google Cloud for enhanced scalability and reliability.
- Managed project workflows and collaboration using Jira, Kanban boards, and Bitbucket.

Eggion - High School Exam Revision Organizing System

- **Company:** Eggion - Australia
- **Technologies Used:** Angular 11, RxJS, HTML, CSS, SCSS, Angular Material, MySQL, Azure DevOps
- Worked on modifications to the Angular 11-based frontend application.
- Developed features and improved the user interface for the High School Exam Revision Organizing System.

Employee Feedback and Rating Management System - Kriyo Project

- **Company:** Codegen International Pvt Ltd - Sri Lanka
- **Technologies Used:** Angular 10, Spring Boot, MySQL, Docker, Apache Tomcat, GitLab, Jira, REST
- Developed a comprehensive system for managing employee feedback and ratings, enhancing internal performance evaluation processes.
- Responsibilities included full-stack development, integration of RESTful APIs, and deployment using Apache Tomcat.

Collaborated with cross-functional teams using GitLab and Jira for version control and project management.

Real Estate ERP System

- **Company:** SA Partners - Canada
- **Technologies Used:** Angular 8, Firebase, Javascript, jQuery, HTML, CSS, MySQL, Github
- Assigned to resolve bugs in the web-based Real Estate ERP System.
- Improved system stability and functionality through detailed bug fixes and performance enhancements.

OnlineClz - Tuition Class Management System

- **Technologies Used:** Python Django, Angular 10, Docker, AWS, HTML, CSS, SCSS, Bootstrap, MySQL, Github, Apache2
- Developed a comprehensive management system for tuition classes.
- Responsibilities included full-stack development, ensuring high performance and usability.

Other Freelancing Projects - Upwork/Freelancer/Fiverr

- iLMS - Intelligent Learning Management System
- CryptoMau Telegram Bot
- APK Activator - Web based APK Reverse Engineering App

- eyeRescue - Computer Vision Application
- LindroidBot - Facebook Messenger Chatbot
- Linkedin Scraper (GUI)
- Instagram Automation Bot
- Salesforce Scraper
- Cloudtango Scraper
- Email And Telephone number Scraper
- Stackoverflow Scraper
- SAS eFinance - Financial ERP System
- SASTD - Torrents to Google Drive Downloader
- Faculty of Technology Android App
- Vitaz Event Manager Android App
- OTPMaster Android App
- Automated Robot Arm with Computer Vision
- Maze Solving Robot (Micro Mouse)

Technologies Used: Python Django, PHP Laravel, Angular 8,10,12,13, OpenCV, Tensorflow, Telegram API, APKTool, Flutter, Ionic3, RASA, Dialogflow, Facebook Messenger API, Selenium, PyQt, Google Colab, Socket.io, WebSockets, Arduino, RaspberryPI, Linux, Firebase, Javascript, jQuery, HTML, CSS, MySQL, Github, Github Actions, Travis CI, Digital Ocean Cloud

DIGITAL SKILLS

Artificial Intelligence

Machine Learning and Artificial Intelligence (Python, PyTorch) / LLM (Ollama, Hugging Face) / Reinforcement Learning (OpenAI Baselines) / Image Processing (Python + OpenCV) / Web Scraping, Data Mining and Automations (Python) / Chat Bot Development (Python + RASA)

Web, Mobile and Desktop Application Development

Front End Web development (Angular) / Backend Web Development (Django, Laravel, Slim, Zend) / Database (MySQL, PostgreSQL ,Sqlite, Firebase) / Hybrid Mobile App Development (Flutter, Ionic3) / Desktop Application Development (Python + QT) / Git / Github / Bitbucket / Gitlab / Azure Dev Ops / REST APIs / CI/CD - Github Actions

Cloud Deployment

Docker / Set up AWS , GCP , Digital Ocean environments

Testing and Automations

Python - Selenium

Electronics and Embedded Systems Development

Raspberry Pi / Arduino

MANAGEMENT AND LEADERSHIP SKILLS

President: USJ FOSS Community (2019) While completing my bachelor's degree, I served as the **founding president** of the USJ FOSS Community at the University of Sri Jayewardenepura.

Student Representative / Member: Student Union I was an active member of the Student Union in the Faculty of Technology at the University of Sri Jayewardenepura while completing my bachelor's degree. I also attended faculty board meetings as a **Student Representative** for the year 2018-2019.

President: ICT Societ of St.Thomas College (2014-2015) I served as the President of the ICT Society at St. Thomas College during my college education.

Founder Member: CodeChamps Online Hackathon Initiated and expanded a programming and network security competition for university students. Started as a small event at the University of Sri Jayewardenepura and grew to include universities across Sri Lanka. Evaluated participants' skills through HackerRank programming contests and custom-built CTF-style network security challenges.

Founder Member: J'pura TechTalks Initiated and organized a new event called **J'pura TechTalks**, which organized a series of guest speeches from industry experts in Sri Lanka. These guest speakers significantly helped university students enhance their knowledge and gain a clear understanding of industry requirements.

Organising Committee: Tech Exhibitions Organized technology-related exhibitions at public schools across Sri Lanka. Aimed to raise awareness about technology among school students. Played a key role in planning and executing these events, helping to educate and inspire the next generation of tech enthusiasts.

VOLUNTEERING

[11/2019] SLIIT-Faculty of Computing Malabe

DevFest 2019 - GDG SriLanka Volunteered in DevFest SriLanka 2019 as a Technical Volunteer - Developed the PhotoBooth Application

PARTICIPATIONS

[04/2019]

CERT CSW Quiz 2019

[03/2018]

Mobitel NB-IoT 2018 Hackathon

[05/2018]

Mozilla Global Sprint 2018

[08/2018]

RoboFest 2018 - Sri Lanka Institute of Information Technology

[09/2018]

CyberFest 2018 CTF Hackathon - National Institute of Business Management

[10/2018]

RealHack 2018 Hackathon - University of Kelaniya

[11/2018]

HackX 2018 Hackathon - University of Kelaniya

[11/2018]

Cyber Security Summit 2018 - CICRA

[12/2018]

Infotel 2018 Innovation Pavilion (EyeRescue project)

[09/2017]

REFERENCES

Mr. Garrick Brooks

Owner/Project Manager - NAZ360 Technologies
4430 East Hollygreen Rd
Flagstaff, AZ 86004
+1 928-637-6001
gtb@naz360.com

Dr. Senaka Amarakeerthi

PhD (Aizu, Japan)
Lecturer in Cybersecurity / Researcher
Aotearoa Career & Management Institute (ACMI),
Auckland, New Zealand
+64 20 4121 0342
senaka@sjp.ac.lk

Ms. Himanshi Liyanage

Ph.D. (reading) in Computer Science (University of Warsaw)
Assistant Professor,
University of Lodz,
Poland.
+48 571 049 633
himanshi@sjp.ac.lk