



CHANDUPA CHIRNAJEEWA BANDARANAYAKE

COMPUTER SYSTEMS AND NETWORK ENGINEER UNDERGRADUATE



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[GitHub.com](#)



[LinkedIn.com](#)

PROFESSIONAL SKILLS

- Programming Languages:
 - Intermediate: C, C++, Java, Python
- Web Development:
 - React for web application development
- DevOps & TechOps:
 - CI/CD pipeline setup, system monitoring, and automation
 - Bash scripting (bash/zsh)
 - Linux system administration (x86_64: Debian, Arch Linux, Fedora, Ubuntu)
 - Network device configurations (Routers, Switches, Firewalls)
 - DNS and DHCP server configurations
- Cloud & DevOps Tools:
 - Azure Cloud
 - Google Cloud
 - Firebase
 - Heroku
- Databases:
 - Oracle DBMS

About Me

- Aspiring Computer Systems engineer with a passion for technology and a strong foundation in programming. Eager to apply academic knowledge and project experience to real-world challenges. Although I have no formal industry experience, my dedication, enthusiasm, and willingness to learn are unmatched. I am ready to contribute to your team with a fresh perspective and a strong work ethic.

Education

- Sri Lanka Institute of Information Technology (SLIIT) –
 - [2022 – Present]
 - BSc (Hons) in Information Technology Specializing in Information Technology [3rd year]
 - Current GPA = 3.6/4
- G.C.E A/L – [2021]
 - Taxila central college – Physical Science Stream(English Medium)
- G.C.E O/L – [2018]
 - Ashoka college (English Medium)

Hands on Experience

- **Full java based vehicle Rental System** (2022-2023).
 - Developed a Java application for data manipulation and user input handling, featuring algorithms for sorting and searching. Users can interact with a console-based interface to input data, which the software processes and outputs results. Utilized core Java APIs for collections and file I/O to enhance functionality.
 - Source code = Java
 - Framework = JDBC
 - Database = MySQL
 - Link = [GitHub](#)
- **Eco Smart Bin** (2023 – 2024)
 - IOT system, a smart waste management system using ESP8266 and Blynk, controlled via an iOS app for 24/7 monitoring.(2023 – 2024)
 - Firmware = C++
 - Platform = Arduino , ESP8266
 - Cloud = Blynk
 - Link = [GitHub](#)
- **IR-Driver-Firmware** (2023 – 2023)
 - This project implements an LED control system using an AVR microcontroller. The system allows you to control the brightness and color of LEDs using an infrared (IR) remote. It supports four white LEDs and three RGB LEDs.
 - Firmware – Bare-metal C
 - Chip – ATMEGA328p chip
 - Arduino UNO to Flash the Chip
 - Link = [GitHub](#)

- **Embedded Systems:**
 - Arduino UNO, ESP32, ESP8266
 - Raspberry Pie
- **Machine Learning Libraries:**
 - TensorFlow, NumPy, PyTorch, Matplotlib

PERSONAL SKILLS

- Problem solving
- Collaboration
- Quick learner
- Confident
- 24/7 on demand service
- Critical and Analytical Thinking
- High attention to details
- Automation mindset
- Strong Troubleshooting skill

Reference

Narmada Gamage

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Pipuni Wijesiri

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- **Inspection-Report-Generator (2024)**
 - This project is a web-based form for generating Pre/Final Inspection Reports in PDF format. The form captures various inspection details and allows for image uploads to include in the report. The PDF generation is handled using the jsPDF library.
 - Link = [GitHub](#)
- **Nagios (2023)**
 - Light weight Distributed System Monitoring Tool
 - Host OS = Centos
 - Test Environment = Vmware
 - 3 Client machine (Febora as the Hosting OS)
 - Web Server = Apache
- **AI-Enhanced Diagnostic and Monitoring System for Bell Pepper Plants (2024)**
 - This project integrates artificial intelligence with IoT technology to monitor and diagnose the health of bell pepper plants in real time. Utilizing IoT devices for data collection and an AI model served through TensorFlow on Google Cloud, the system detects potential diseases or abnormalities in the plants by analyzing leaf images. The data is processed via a FastAPI backend, while users can interact with the system through a simple React app hosted on Firebase. This solution enables efficient plant health management and early intervention to optimize crop yield and quality
 - FireBase = Backend
 - Model = CNN model (Diseases Diagnosing model)
 - TF serving
 - Docker
 - IOT = ESP32
 - FastAPI = API
 - Google Cloud Functions = Model Deployment
 - Link=[GitHub](#)

Certifications and Courses

- CCNA: Introduction to Networks
- Following the CCNAv7: Switching, Routing, and Wireless Essentials.
- Following the CCNA: Network Security.
- Following Red Hat Certified System Administrator (RHCSA) exam (EX200)
- DevOps Deployment Techniques with Docker, Kubernetes & AWS (Free UdeMy Course):
 - Implemented DevOps deployment strategies using Docker, Kubernetes, and AWS.
- Learn Programming in Go (Golang): Webserver with PostgreSQL (Free Course):
 - Developed a web server in Go (Golang) integrated with PostgreSQL.
- Learn CI/CD Pipeline With Jenkins, Python, Docker, DockerHub (Free Course):
 - Built and managed CI/CD pipelines with Jenkins, Python, Docker, and DockerHub.
- DevOps with Jenkins Pipeline, Ansible, Kubernetes & Docker (Free Course):
 - Worked with Jenkins Pipelines for continuous integration and deployment, using Ansible for configuration management, and Kubernetes for container orchestration.