

YASHODHA GUNAWARDHANA

 GitHub

 Portfolio

 LinkedIn

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I am a passionate and skilled computer engineering undergraduate from the University of Ruhuna, Sri Lanka, with a strong foundation in full-stack development and a keen interest in cybersecurity. As a proactive learner and problem-solver, I thrive in dynamic environments where I can leverage my technical skills to create innovative solutions. Open to opportunities in web development and beyond, I aim to deliver value through creativity, collaboration, and commitment to excellence.

Technical Skills

- Front-End Development : **Reactjs, Nextjs, Tailwind, HTML, CSS, JavaScript**
- Back-End Development : **Node, Express**
- Mobile Development: **Flutter, Dart,**
- Database Management: **MongoDB, MySQL, Firebase**
- Tools and Platforms: **Git, GitHub, Docker, Jira, Figma, Agile Development**
- DevOps and Cloud computing: **Linux Administration, CI/CD, Docker, Jenkins**
- Programming Languages : **Python, Java, C++, C, JavaScript**

Projects

Power Drafter Panel Pro (Next.js Project)

Power Drafter Panel Pro

Developed a comprehensive web application for designing electrical panel board layouts with a user-friendly interface. The platform enables users to create precise, customizable designs while automating the generation of detailed quotations. Integrated advanced tools to streamline the design process and enhance productivity, making it an ideal solution for engineers and designers in the electrical industry.

Tools Used: **Next.js, React.js, Figma, Tailwind CSS, Convex, React DnD**

Laptop Store Ecommerce Website (Full-Stack MERN Project)

Infinity Laptop Store

Developed and deployed a fully functional eCommerce website for a laptop store using the MERN stack (MongoDB, Express.js, React.js, Node.js). The platform provides a seamless shopping experience for users and an advanced admin dashboard for managing the store.

Tools Used: **React.js, Node.js, Express.js, MongoDB**

Finance Tracker (Front End)

Finance Tracker

Financial tracker is a comprehensive web application developed for our 3rd-semester project on the GUI Module. This project challenged us to implement our GUI module learnings effectively. From HTML structuring to JavaScript functionality and CSS styling, every aspect has been carefully curated to provide users with a powerful yet easy-to-use financial tool.

Tools Used: **HTML, CSS, JavaScript**

Tourly- Smart Tour Guide Mobile App

Designed and developed a cross-platform mobile application using Flutter and Dart, integrated with Firebase for backend services such as authentication, real-time database, and cloud storage. Delivered a responsive and user-friendly app with seamless performance.

Tools Used: **Flutter, Dart, Firebase**

Credit Card Fraud Detection Using Machine Learning

Credit Card Fraud Detection

Developed a machine learning model to detect fraudulent credit card transactions using Python and Google Colab. Addressed class imbalance with under sampling and evaluated Logistic Regression and Random Forest models. Achieved effective fraud detection, ensuring high precision and recall.

Tools Used: **Python ,Google Colab , Scikit-learn, Pandas, Matplotlib and Seaborn (for data visualization)**

Flappy Bird game

Flappy Bird Game

Developed a replica of the popular Flappy Bird game using Java, showcasing strong programming skills and creativity

Tools Used: **Java**

Education

University of Ruhuna, BSc in Computer Engineering

March 2022 – Present

Eheliyagoda National College

2011-2019

Achievements

- **IEEEXtreme 18.0**

Achieved **Global Rank 513** and **Sri Lanka Rank 36** among **9,000+ teams** worldwide in this 24-hour global programming competition organized by IEEE.

- **Red Cypher 1.0 – Capture The Flag**

Secured **11th place** in this cybersecurity-focused CTF competition, demonstrating skills in problem-solving and ethical hacking.

Extra Curricular Activities

- Member – IEEE Student Branch UOR
Organizing Committee Member (Delegate Team) - CareerXpo 1.0
Organizing Committee Member (Program Team) - HaXtreme 2.0
- Member – University Team Taekwondo (2023-2024)
- Member – Students for the Exploration and Development of Space (SEDS) Ruhuna

Referees

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