



Senal Punsara

Software Engineer



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[visit-my-portfolio](#)



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ABOUT ME

- I am a dedicated, team player passionate about solving problems through innovative and efficient programming solutions. Eager to enhance my skills and knowledge by exploring new technologies and techniques, recognizing that the fast-paced nature of the industry demands adaptability.

EXPERIENCE

- Software Engineer - Intern** Nov 2022 - May 2023
WSO2 Lanka (Private) Limited
Developed a threat intelligence notification system for the WSO2 Security Operating Center(SOC). It helps the SOC to be up to date with the potential cyber security threats that can occur in WSO2 products & solutions and take necessary actions before these potential threats occur.
Tech Exposure : [Ballerina](#) | [Choreo](#) | [Azure](#) | [Apps Script](#)

EDUCATION

- University of Colombo School of Computing** Mar 2020 - May 2024
[B.Sc. \(Hons\) in Software Engineering](#)
 - Grade :** First Class
- Nalanda College, Colombo 10** Jan 2005 - Aug 2018
[GCE Advanced Level - Aug 2018](#)
 - Stream :** Physical Stream
 - Results :** Combined Mathematics - **A** | Chemistry - **A** | Physics - **B**[GCE Ordinary Level - Dec 2015](#)
 - Results :** 9 As

PROJECTS

- LET'S HASH ONLINE** (Individual Project) [🔗](#) June 2024
A robust web-based solution designed to efficiently calculate hashes for large files and text, ensuring quick and easy processing for integrity verification.
Features :
 - File & Text Hashing:** Supported algorithms including MD5 and SHA for file and text hashing.
 - User-Friendly Interface:** Designed for simplicity and ease of use and provides a seamless experience for users.
 - High Privacy:** All file and text inputs are processed locally. We prioritize your privacy and ensure your data is never stored or shared.
 - Cross-Platform Compatibility:** Accessible from smart devices with an internet connection.**Tech Stack :** [React](#) | [Material UI](#) | [Choreo](#)
- SafeSerpent** (Individual Project) [🔗](#) May 2024
This software is designed to provide a secure, fast, and straightforward way to encrypt and decrypt your large files. Whether you're looking to protect sensitive information or want to ensure your data is safe, SafeSerpent offers an easy-to-use solution.
Features :
 - File Encryption:** Securely encrypt your files using the AES-GCM-256 algorithm.
 - File Decryption:** Easily decrypt files previously encrypted with SafeSerpent.
 - User-Friendly Interface:** Intuitive user interface for seamless operation.
 - Open Source:** Fully open-source and available on GitHub.**Tech Stack :** [Python](#)

● **EMvidence** (Final Year Project) [🔗](#)

Jun 2023 - May 2024

EMvidence is a Forensics-as-a-Service (FaaS) Platform for Electromagnetic (EM) Side-Channel Insight Analysis of IoT Devices. This solution has multiple plugins for different kinds of IoT devices and analysis methods. It streamlines the process of data acquisition and data analysis at remote forensic laboratories using the same platform.

Contribution :

- Handle large EM data files.
- Ensure the security of the EM data files.
- Design a digital forensics process model for the system.

Tech Stack : [React](#) | [Material UI](#) | [Laravel](#) | [Python](#) | [MySQL](#)

● **Care Plus** (Undergraduate Project) [🔗](#)

Sep 2022 - Oct 2022

This mobile application, developed using Flutter, allows users to calculate their BMI (Body Mass Index) by entering their height and weight. Additionally, the app can save records of previously calculated BMI values. A unique feature of the app is the ability to enter symptoms and receive possible diseases with detailed descriptions based on those symptoms.

Features :

- **BMI Calculator:** Enter your height and weight to calculate your BMI.
- **Record Saving:** Save and view previously calculated BMI values.
- **Symptom Checker:** Input your symptoms to get a list of possible diseases and detailed descriptions.

Tech Stack : [Flutter](#) | [Dart](#) | [Firebase](#) | [Android Studio](#)

● **Entero** (Undergraduate Project) [🔗](#)

Apr 2022 - Oct 2022

Entero is a web-based platform for event management which facilitates and satisfies the users towards various services. System Entero assists the service providers to reach and promote their business as well as customers to fulfill their needed services through this single system.

Contribution :

- Service charge, Service provider's portfolio, and System analytics modules.

Tech Stack : [React](#) | [Tailwind CSS](#) | [Express.js](#) | [PostgreSQL](#)

● **Construct360deg** (Undergraduate Project) [🔗](#)

Mar 2021 - Mar 2022

Construct360 is a construction management system, which is a web-based platform seamlessly connecting customers, contractors, and landscape designers. This solution empowers customers to take control of their construction projects without the need to be physically present at the site. Additionally, If customers need any construction materials, they can easily order the relevant items on the same platform.

Contribution :

- Advertisement, Appointment scheduling, Construction projects analytics, and Project onboarding modules.

Tech Stack : [HTML 5](#) | [CSS 3](#) | [JavaScript](#) | [Java EE](#) | [MySQL](#)

SKILLS

- | | |
|---|---|
| ● Programming Languages
JavaScript Java C C++ PHP Python | ● Databases
MySQL PostgreSQL MongoDB |
| ● Web Development
React Tailwind CSS Material UI Node.js Express.js Laravel Java EE | ● Other Technologies
Git Docker Azure Firebase Flutter Trello |

HONORS AND AWARDS

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| ● Inter Faculty Chess Championship - University of Colombo 🔗
1st Runners Up | May 2023 |
| ● Inter Faculty Chess Championship - University of Colombo 🔗
2nd Runners Up | Nov 2022 |
| ● President's Scout Award 🔗 | Jan 2017 |
| ● All Island Inter School Team Chess Championship - Under 14 🔗
Champions | Oct 2011 |

REFEREES

- | | |
|--|--|
| ● Dr. Asanka P. Sayakkara
Senior Lecturer
University of Colombo School of Computing (UCSC)
Email: asa@ucsc.cmb.ac.lk | ● Mr. Akila Bandara
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