Sahan Punchihewa
Software Engineer

PERSONAL

Name in Full : Sahan Nilupul Punchihewa
Birthday   : 19th February 1998
Nationality   : Sri Lankan
Gender   : Male

CONTACT

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RELEVANT COURSEWORK

- Data structure and algorithms
- Secure software development
- Enterprise application development
- Mobile application development
- Software project management
- User experience engineering
- Database management systems

SOFT SKILLS

- Communication Skills
- Able to work as a team
- Hard-working
- Leadership Skill
- Adaptability
- Collaboration
- Time Management
- Problem Solving

REFERENCES

- Ms. Lokesha Weerasinghe,
  Lecturer Faculty of Computing SLIIT
  lokesha.w@sliit.lk
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- Ms. Hansi De Silva
  Lecturer Faculty of Computing SLIIT
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WORK EXPERIENCE

- **Associate Software Engineer - DxDy(Pvt) LTD**   **Dec 2024 - Present**

I am contributing to the development of a Travel Management System using ASP.NET, enabling seamless booking and travel detail management. Additionally, I am designing a robust workflow for managing travel requests and approvals

- **RPA Developer - Intern DP Infotech (Pvt) LTD**   **Mar 2024 - Sep 2024**

I implemented an Asset Management Application using Power Apps and Power Automate, and also designed a Legal Management Application leveraging Power Apps. Additionally, I developed a chatbot application utilizing Microsoft Copilot Studio, and contributed to the MSL System Ticket system by integrating Power Automate with a Python backend. I also conducted research and development on digital signatures and explored JIRA Server API integration through R&D

- **Associate Software Engineer | Nino Digital House (Pvt) Ltd**   **Jul 2023 - Nov 2023**

I worked on an Online Student Management System, utilizing Laravel for the backend and Angular for the frontend. Additionally, I deployed the developed projects using Direct Admin.

- **Trainee Software Engineer | Nino Digital House (Pvt) Ltd**   **Jan 2023 - Jul 2023**

I designed and developed an OMDB Movie portal using REST API and Angular, created an e-commerce website with WordPress, and built a School Management System using Laravel and Angular.

EDUCATION

Sri Lanka Institute of Information Technology- SLIIT

- BSc (hons) in Information Technology Specializing in Software Engineering
  2020 - 2024 Completed

Esoft Metro Campus - Nugegoda

- Diploma in PC Hardware Engineering and Network Administration - 2018

Isipathana College - Colombo 05

- GCE Advance Level in Commerce Stream | 2017

LANGUAGES AND FRAMEWORKS

- JavaScript | TypeScript | Node.js | React JS | Angular | MERN Stack | ASP.Net | Java | C | C++ | C# | Laravel

TECHNOLOGIES AND TOOL

- Git / GitHub / GitLab
- Docker
- Visual Studio Code, Visual Studio
- Visual Studio, Visual Studio Code, Android Studio
- Digital Ocean, Direct Admin, Heroku, AWS, Azure, Render
- Power Apps, Power Automate, SharePoint, Copilot

ACHIEVEMENTS AND CONTRIBUTIONS

- Developer - MS Club of SLIIT
- Participate SLIIT Xtreme Competition 2021
- Participate Hacktitude Competition 2021
- Contribute to Hacktoberfest in 2021
- Contribute to Hacktoberfest in 2022

Mashood Fitness   **Nov 2024 - Jan 2025**

- Mashood Fitness is a professional gym website designed to inspire and empower individuals to achieve their fitness goals. The platform provides detailed information about the gym's services, membership plans, workout schedules, and fitness programs tailored for all levels. It features a user-friendly interface, enabling visitors to explore facilities, book sessions, and learn more about health and wellness. With its modern design and engaging content, Mashood Fitness is your go-to destination for transforming your fitness journey.
- **Technologies : ReactJS, Tailwind**
- **Project Link: Mashood-Fitness**

ShopEasy Inventory Management System   **Oct 2024**

- The ShopEasy Inventory Management System (IMS) is a streamlined web application designed for efficient product and inventory management within the organization. Built with .NET Core Web API and Entity Framework Core, the system ensures secure and user-friendly operations.
  Key Features:
- 1. JWT-Based Authentication: Secure user login to restrict access to authorized employees only.
- 2. Product Management: Comprehensive CRUD functionality to manage product details, including ID, name, description, stock quantity, and price.
- 3. Inventory Alerts: Low-stock products flagged based on user-defined minimum stock levels.
- 4. Reporting: Generate reports for low-stock, out-of-stock products, total inventory value, and more.
- 5. Role-Based Access: Admins manage users and products, while employees can view product details and generate reports.
- 6. RESTful API: Accessible API endpoints for authentication, product management, and reporting ensure seamless integration and scalability
- **Technologies : ASP.NET, ReactJS, MongoDB, Docker, Tailwind**
- **Project Link: Inventory-Management-System-Backend**
            Inventory-Management-System-Web

Final Year Research Project - Apeksha Hospital Donor Engagement System   **4th Year 2nd Semester**

- As part of the "Apeksha Hospital Donor Engagement System" project, I contributed to developing an intelligent donor-driven inventory system to address donor engagement and inventory challenges at Apeksha Hospital. The hospital faced significant difficulties in managing donor relationships and efficiently allocating resources based on donor preferences and hospital needs. Our solution utilizes machine learning to analyze donor behavior and historical inventory usage patterns, enabling the system to recommend essential items that align with current requirements. This innovative approach not only improves the accuracy of inventory management but also enhances donor satisfaction by providing a tailored, interactive platform for donors to select and track their contributions. The outcome is a more efficient and responsive resource allocation system that bridges the gap between donor intentions and hospital necessities, leading to improved operational efficiency and a better donor experience.
- **Technologies : Python , NodeJS, ReactJS, MongoDB, Express**
- **Tools : Jupyter Notebook, Scikit Learn, Anaconda Navigator, FastAPI, and Render**
- **Algorithm : Decision Tree Regression**
- **Version Controlling : GitHub**
- **Containerization : Docker**
- **Project Link: Lend-A-Hand**

Current Trends in Software Engineering - E-Commerce Web Application   **4th Year 2nd Semester**

- As part of a university assignment on Current Trends in Software Engineering, our group developed a microservices-based e-commerce website architecture, including Auth, Order, Product, and Review Services, with an API Gateway for client queries. I was responsible for developing the Order Service, creating comprehensive documentation, and implementing Docker and CI/CD pipelines specific to the Order Service. My contributions ensured robustness and efficient integration within the overall architecture. This project demonstrated my proficiency in modern software development practices, containerization, and automated deployment processes, showcasing my ability to contribute effectively to dynamic development environments.
- **Technologies : Node JS, MongoDB, Docker, Kubernetes**
- **Project Link: E-Commerce Web Application**

Enterprise Application Development - Online Ticket Reservation System   **4th Year 1st Semester**

- Automated end-to-end Online Ticket Reservation System, showcasing proficiency in ASP.Net C# for the enterprise application, Java for the Android mobile app, and ReactJS for the frontend. Implemented a RESTful web service to enable seamless communication between components. The result is a unified platform that allows users to easily browse, select, and reserve tickets across web and mobile interfaces.
- **Technologies : ASP.NET, ReactJS, Java, MongoDB, Docker**
- **Project Link: Ticket-Reservation-System-Backend**
            Ticket-Reservation-System-Frontend
            Ticket-Reservation-System-Mobile

Complaints Management System   3rd Year 2nd Semester

- The Automated Online Complaints Management System utilizes MERN stack with Docker integration. It simplifies complaint handling, enabling submission, tracking, and updates. MongoDB stores data efficiently, Express/NodeJS manage server-side tasks, and ReactJS ensures a user-friendly interface. Docker enhances the system's capabilities through containerization. This project optimizes complaint management with cutting-edge technology.
- **Technologies : MongoDB, Express, NodeJS, ReactJS, Docker (MERN Stack)**
- **Project Link: <u>Online Complaints Management System</u>**

Ayurvedic Shopping Platform   3rd Year 2nd Semester

- The Automated Online Ayurvedic Shopping Platform employs the MERN stack, Docker, and Kubernetes. Offering seamless shopping, it features a wide Ayurvedic product range. Microservice architecture ensures scalability, and Docker provides consistency. Kubernetes orchestrates containers, enhancing efficiency. This project innovates Ayurvedic shopping with advanced technology, enhancing user experience and management.
- **Technologies : MongoDB, Express, NodeJS, ReactJS, Docker, Kubernetes (MERN Stack)**
- **Project Link: <u>Online-Ayurvedic-Shopping-Platform</u>**

Procurement for Construction Industry   3rd Year 1st Semester

- The Automated Online Procurement for the Construction Industry System is a robust web application built using the MERN (MongoDB, Express, ReactJS, NodeJS) stack. This project aims to streamline and automate the procurement process within the construction industry. The system allows users to manage supplier information, create purchase orders, track inventory, and generate reports. With MongoDB as the database, data is stored and retrieved efficiently, while Express and NodeJS handle the server-side logic. ReactJS provides a modern and intuitive user interface, enhancing the user experience. This project revolutionizes procurement practices by digitizing and automating essential processes for construction companies.
- **Technologies : MongoDB, Express, NodeJS, ReactJS, Docker (MERN Stack)**
- **Project Link : <u>Procurement-for-Construction-Industry-backend</u>**
- **Project Link : <u>Procurement-for-Construction-Industry-frontend</u>**

Travel Planning System   3rd Year 1st Semester

- The Online Travel Planning System is a comprehensive platform designed to assist users in planning their travels efficiently. Utilizing the MERN stack technology (MongoDB, Express, ReactJS, and NodeJS), this system offers seamless integration and a user-friendly interface to facilitate booking, itinerary management, and travel planning.
- **Technologies : MongoDB, Express, NodeJS, ReactJS, Docker (MERN Stack)**
- **Project Link : <u>Travel-Planning-System-Backend</u>**
- **Project Link : <u>Travel-Planning-System-Frontend</u>**

Star Grocery Mobile Application   2nd Year 2nd Semester

- The Automated Online Grocery Mobile Application facilitates doorstep delivery of products and services to customers. With seamless payment options integrated within the app, customers enjoy convenient transactions. Developed using Java and Firebase, the app ensures reliable performance and secure interactions.
- **Technologies : Java**
- **Project Link : <u>Star-Grocery-Mobile-Application</u>**

Online Hotel Management System   2nd Year 2nd Semester

- The Automated Hotel Management System aims to provide hassle-free management for hotel owners by incorporating features such as Supplier Management, Customer Manager Management, Employee Management, Resource Management, and many more. The technology stack used for this system includes MongoDB, Express, ReactJS, and NodeJS.
- **Technologies : MongoDB, Express, ReactJS, NodeJS (MERN Stack)**
- **Project Link : <u>Online-Hotel-Management-System</u>**

Online School Management System   2nd Year 1st Semester

- Developed using JSP Servlet, Bootstrap, and MySQL, the Automated Online School Information Management System optimizes student enrollment, attendance, grades, and reporting. Its user-friendly interface aids administrators, teachers, and students, while MySQL safeguards data integrity. Streamlining school management for enhanced efficiency.
- **Technologies : Java JSP Servlet, Bootstrap, MySQL**
- **Project Link : <u>Online-School-Information-Management-System</u>**

Online Music and Video Store   1st Year 2nd Semester

- The Automated Online Music and Video System offers comprehensive management of music and video content through a unified platform. Users can efficiently handle video and audio content, user accounts, and more. Developed using HTML, CSS, JS, and PHP, it ensures seamless functionality and user-friendly interaction.
- **Technologies : HTML, CSS, JS, PHP, MySQL**
- **Project Link : <u>Online-Music-and-Video-Store</u>**