KESHAN JAYAWEERA

SOFTWARE ENGINEER

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GitHub: github.com/keshandinith4 | Portfolio:keshan jayaweera
Gampaha, Western Province, Sri Lanka.

A motivated undergraduate with a strong interest in software engineering, web development, and digital innovation. Passionate about creating efficient, user-centered solutions that combine solid functionality and clean UI/UX design. Brings hands-on experience in full-stack development, along with proven leadership, communication, and project management skills gained through active involvement in Saegis Students' Forum, Leo Club, and other professional clubs. Quick to learn new technologies and committed to contributing positively in collaborative, high-performing teams.

SKILLS

- **Programming Languages**: Python, JavaScript, C#
- **Core Competencies**: Project Management, Full-Stack Web Development(MERN), UI/UX Design, DevOps & CI/CD, Database Management.
- **Tools & Technologies:** Git, Notion, Docker, MySQL, PostgreSQL, MongoDB, Cassandra.
- **Soft Skills:** Leadership, Project Management, Team Collaboration, Problem-Solving, Technical Writing, Communication, Adaptability & Learning, Organizational & Work Ethics.
- **Creative & Design:** UX Design, Graphic Design, Video Editing, Videography, Photography

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PROJECTS - IT RELATED

Dyes And Thread-Ongoing Project
Full Stack Developer | MERN Stack
- Developed a full-stack, mobile-responsive e-commerce web application for selling handmade batik products.
- Designed and implemented complete CRUD operations for product and order management.
- Created dynamic and mobile-responsive user interfaces.
- Developed RESTful APIs using Node.js and Express.js for backend functionality.
- Managed database operations using MongoDB.
- Implemented secure user authentication and authorization using JWT and password hashing.
- Used Tailwind CSS for responsive design and cross-device compatibility.
- Version control and collaboration with Git & GitHub.
- GitHub: github.com/keshandinith4/dyes-and-thread
- GitHub: github.com/keshandinith4/dyes-and-thread-backend

Rabbit Tourism-Ongoing Project
Frontend Developer | MERN Stack
- Collaborated in a team to develop a tourism-based web application.
- Converted a Bootstrap template into React.js components and customized the design.
- Implemented responsive, user-friendly interfaces for seamless cross-device experience.
- Applied component-based architecture to improve UI structure and maintainability.
- Integrated frontend with backend APIs for dynamic content rendering.
- GitHub: github.com/keshandinith4/rabbit-tourism

CERTIFICATIONS

• AWS Cloud Computing Course (In Progress)	AWS Academy
• Front-End Web Development	University of Moratuwa
• Machine Learning - I	Columbia University in the City of New York
• ASP.NET Core Web API	Udemy
• Introduction to Data Science	Cisco Network Academy
• Computer Hardware Basics	Cisco Network Academy
• SLIIT CODE FEST-2025-Participation Certificate	SLIIT Campus
• LYCEUM Campus Research Circle 2025- Participation Certificate	LYCEUM Campus
• Saegis Code Pulse 2024-Participation Certificate	Saegis Campus

EDUCATION

Saegis campus   **Expected Graduation: 2027**

Bsc (hons) Software engineering
  • Currently pursuing a Bsc (hons) Software engineering Degree At Saegis Campus.

Advanced Level Exams   **2020**
  • Completed the Advanced Level Exams Successfully in Maths Stream in 2020

PROFESSIONAL EXPERIENCE

President of Students' Forum of Saegis Campus   **(2024 November -2025 November)**

  • Represent and advocate for student welfare while acting as the liaison between students and university administration. (The major student body of the Saegis Campus, that manages more than 2500 students).
  • Led 12 committees within the university's main student body, ensuring effective planning and execution of initiatives..

Member of LEO Club of Wakanda	**(2024 February - Present)**
Member of Saegis Rifle Shooting Club	**(2025 March - Present)**
Member of ICT Club of Saegis Campus	**(2023 November - Present)**
Youth Club of Belummahara Nawa Eksath Gemunu - Assistant Treasurer	**(2023 – 2024)**
LEO Club of Gampaha Circle - Treasurer	**(2023 August – 2024 June)**
LEO Club of Gampaha Metro - Member	**(2020 – 2023)**

RESEARCH & PUBLICATIONS

Impact of Seasonal Rainfall Variability on Sri Lankan Paddy Yield in Henarathgoda, Gampaha District
  • Analyzed data related to weather and agriculture (over 900 acres) to understand the effect of rainfall and flooding on crop yield, and created data insights to inform decision-making, which was presented at the Saegis Undergraduate Research Symposium. (Ongoing research)

Adaptive Traffic Control System for Sri Lanka Based on Weather Conditions and Real-time Sensor Data
  • Developed a weather-responsive traffic signal control system using IoT sensors and Deep Reinforcement Learning, which enhances traffic flow, reduces delay, fuel, and emissions in mixed-traffic urban intersections. (Ongoing research).

REFEREES

Dr. Krishani Anuradha Jayasinghe
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