Kanchana Samarasinghe

Intern Software Engineer

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Profile

Motivated and self-driven Software Engineering student with hands-on experience in web development, mobile app development, game development, and IT auditing. Proven ability to lead and contribute to technology-driven projects, focusing on user experience, real-time functionality, and seamless system integration. Skilled in leveraging cutting-edge technologies, including machine learning and data warehousing, to solve complex challenges. Passionate about innovation, software architecture, and delivering impactful digital solutions through efficient and scalable development practices.

Education

Sabaragamuwa University of Sri Lanka, *Bsc.(Hons) Software Engineering*   08/2022 – present

Ibbagamuwa Central College, *G.C.E. O/L & G.C.E. A/L Physical Science Stream*   01/2012 – 08/2020

Technical Skills

Languages: C, Python, Java, JavaScript, PHP, TypeScript, C#

Frameworks / Libraries: React, Laravel, Unity, Django, Next

Tools: Git, VS Code, IntelliJ IDEA, Postman, Docker

Databases: MySQL, MongoDB, Firestore, PostgreSQL   **Platforms:** Firebase

Projects

PhysicsQuest, *Team Project* 🔗
- **Description:** Developed an educational mobile game that teaches physics through interactive gameplay, featuring a bike simulation where players input the correct lean angle based on speed to navigate bends.
- **Technologies:** Unity 2D, C#, Firebase
- **Project Management Framework:** Agile methodology
- **Role:** Game developer, responsible for implementing game mechanics, physics simulations, and UI/UX design.

Project_Medemo, *Team Project* 🔗
- **Description:** Developed an AI-powered healthcare solution to improve patient care, accessibility, real-time communication, appointment scheduling, and emergency response.
- **Technologies:** Flutter, Firebase, AI/ML, REST APIs
- **Project Management Framework:** Scrum (Agile methodology)
- **Role:** Scrum Master and full-stack developer, responsible for system architecture, front-end development, and backend integration.

Flavors, *Team Project* 🔗
- **Description:** Developed an interactive recipe-sharing platform with user profiles, chef registration, recipe filtering, and community engagement to enhance the culinary experience.
- **Technologies:** Next.js, MongoDB, Tailwind CSS, Firebase Authentication
- **Project Management Framework:** Agile methodology
- **Role:** Full-stack developer, responsible for implementing the navigation system, sidebar, user authentication, and chef profile functionality.

E-Commerce Web Site, *Individual Project (On going)* 🔗
- **Description**: Built a full-stack e-commerce web application featuring dynamic product management, secure user authentication, real-time content updates, and seamless payment processing.
- **Technologies**: Next.js 15, React 19, TypeScript, Tailwind CSS, Sanity CMS, Stripe, Clerk, Framer Motion
- **Project Management Framework**: Agile methodology (Scrum)
- **Role**: Full-stack developer responsible for implementing core features, customizing the UI/UX, integrating third-party services, and deploying the application.

Project_Uvindu Food Cabin, *Team Project (On going)* 🔗
- **Description**: Developed a full-stack food ordering system to streamline food delivery and improve user interaction between customers and local shop owners. Key features include user feedback, shop owner announcements, order management, and a responsive admin panel.
- **Technologies**: React, Django, MongoDB, REST APIs
- **Project Management Framework**: Agile methodology (Scrum)
- **Role**: Full-stack developer responsible for designing and implementing the admin panel, managing user and order data, and ensuring seamless integration between the front and back end.

Awards

Top 10 at TADHack Sri Lanka 2023
Organized by hSenid and Dialog Ideamart, awarded for developing an innovative solution leveraging communication APIs to address real-world challenges, competing against top teams nationwide.

2nd runner up 2023 IEEE INSL Sabaragamuwa Province 🔗
Recognized for outstanding performance in the IEEE Innovation and Startup League (INSL) at the Sabaragamuwa Province level, showcasing exceptional skills and innovative ideas in the competition.

Semi Finalists of the SLIOT Challenge 2023
Competed in the semi-finals of the SLIOT Challenge 2023, hosted by the University of Moratuwa, demonstrating strong teamwork and innovative problem-solving skills in a highly competitive environment.

Extracurricular Activities

Volunteer Coordinator, *IEEE Students Branch of Sabaragamuwa University*   09/2024 – present

Active Member, *Society of Computer Sciences, Sabaragamuwa University of Sri Lanka*

Soft Skills

- Leadership
- Time Management
- Effective Communication
- Self-Learning Ability
- Problem Solving
- Creativity
- Teamwork & Collaboration
- Adaptability

References

Professor (Dr.) S. Vasanthapriyan, Ph.D.SMIEEE,
Dean, Faculty of Computing,
Professor in Computer Science,
Sabaragamauwa University of Sri Lanka.
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