Sasanka Ravindu Wakkumbura

BSc Information Technology Undergraduate | Software Engineer

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Profile

Dynamic software engineer with experience in system integration, scalable applications, and research projects. Skilled in Python,C# and web technologies, with low-level coding expertise for hardware integration and SDK-based device connectivity.

Work Experiences

- **Software Engineer Intern, Zebra Technologies** (2025 March – 2025 September)
  - Experienced in low-level coding with SDK integration to build reliable applications for scanner connectivity..
  - Gained hands-on experience in Generative AI, Machine Learning, and Computer Vision.
  - Demonstrated strong UI/UX design skills by developing demo applications with complex 3D user interfaces.
  - Worked with RFID and Bar code devices and fix bugs.

- **Frontend Developer (Part-time), Metacoders** (2025 Jan – Present)
  - Built responsive front-end applications using React and modern UI libraries.
  - Created unit tests for each component to ensure reliability and maintainability.
  - Improved cross-platform performance and optimized user experience.

- **Full Stack Developer, LoonsLab** (2023 July – 2024 July)
  - Led a team in developing MedInvent Connect optimizing API performance and UI responsiveness.
  - Implemented secure authentication, API optimization, and database indexing.
  - Integrated Flutter frontend with Node.js backend.

- **Web Developer, GDG Sri Lanka** (2023 – 2024)
  - Contributed to the Google I/O website.

- **Creative Designer, The Ceylon Spice Hub** (2022 – 2024)
  - Designed branding materials, product labels, and digital marketing assets.

- **Software Engineer, Freelancing** (2022 – Present)
  - Completed multiple projects across Python, web development, and research domains.
  - Delivered custom solutions ranging from automation scripts to full-stack web applications.

- **Manager, University of Moratuwa Basketball Team** (2022 – 2025)
  - Managed team operations including training schedules, logistics, and tournament organization.
  - Achieved a major milestone by winning the 2025 SLUG Championship.

Education

- **BSc in Information Technology** (2022 – 2026 July)
  University of Moratuwa   Moratuwa,Sri Lanka
  Current C.GPA: 3.62

- **Diploma in Cyber Security & Ethical Hacking** (2020)
  CICRA Campus   Sri Lanka
  Hands-on experience in penetration testing, network security, and ethical hacking methodologies.

- **G.C.E. Advanced Level** (2020)
  Kingswood College   Kandy,Sri Lanka
  Combined Mathematics - A, ICT - A, Physics - B. Z-Score: 1.909.

Projects

- **MedInvent Connect** - Group Project (Flutter, React, Node.js, MongoDB)
  Led the development of a comprehensive healthcare management platform. Developed mobile and web applications to manage clinic sessions, doctor appointments, and prescription tracking, improving healthcare accessibility.

- **RFID Live Tracking Simulator** (WPF, C#, RFID, 3D Simulation)
  Created a 3D simulation to track objects in real-time using RFID tags and readers. Visualized exact object locations and maintained location history for monitoring and analysis.

- **TaskGo** - Freelancing Project (React, Node.js, MongoDB)
  Developed a platform connecting service seekers with local hardware and home service workers. Users can post tasks, workers bid for jobs, and secure payments are handled in-app.

- **Convert Speech to Text and Text to Speech** (Python, SpeechRecognition, Tkinter, gTTS)
  Built a desktop application for real-time speech-to-text conversion and text-to-speech synthesis, enhancing accessibility for users with disabilities.

- **SentinelResQ** - Group Project (Arduino, C++)
  Designed an autonomous search-and-rescue rover with real-time video streaming and environmental monitoring. Integrated multiple sensors for obstacle detection and navigation.

Technical Skills

- **Web Development:** React, Next.js, Node.js, Tailwind CSS, RESTful APIs
- **Programming Languages:** Python, Java,C, C#, Shell Scripting
- **Mobile Development:** Flutter, Kotlin, React Native
- **Cloud & DevOps:** Docker, Firebase, GitHub Actions
- **Database Management:** MongoDB, MySQL, Firebase, PostgreSQL
- **Design Tools:** Figma, Photoshop, Adobe Illustrator, UI/UX Wireframing

Achievements

- **President's Scout of Sri Lanka**   2019
  - Earned the highest rank in Sri Lanka Scouting by demonstrating leadership, teamwork, survival skills, and community service.

- **Placed 10th - Google Hash Code**   2021
  - Achieved a high national ranking in Google's international team-based coding competition, solving real-world optimization problems.

- **Finalist - National Olympiad in Informatics**   2019
  - Competed in one of Sri Lanka's most prestigious programming competitions, solving complex algorithmic and data structure problems.

- **University Colors for Basketball**   2023,2025
  - Recognized for exceptional performance, contributing to the University of Moratuwa winning the SLUG Championship.

- **Hackathon Participation**
  - **Coderally 2.0 (2021)** - Built efficient algorithms for coding challenges.
  - **Google Hash Code (2022)** - Built efficient algorithms for large-scale problem solving.
  - **Coderush (2023)** - Designed a fintech solution focusing on secure and scalable transactions.

Referees

- **Dhanushka Adrian** - Technical Lead, Zebra Technologies
  Email: adrian.dhanushka@zebra.com   Phone: +94 71 2090 625

- **Kamal Wijesekera** - Senior Program Manager, Pearson
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