

Sulakna Karunaratna

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Summery

A skilled and motivated Full-stack developer with 3 years of experience specializing in React, MongoDB, and Node.js. Proficient in designing and building scalable web applications, implementing backend services, and creating responsive user interfaces.

Work Experience

Computer Science Dept., Virginia Tech

Blacksburg, VA, USA

Graduate Teaching Assistant

Jan - May (2023 and 2024)

- Assisted professors in grading assignments for the "Introduction to Graphical User Interface" course.
- Supported students by answering questions and providing guidance on assignments.
- Contributed to fostering a productive learning environment through timely and accurate grading and feedback.

Arimac Lanka

Colombo, Sri Lanka

Associate Software Engineer and Business Analyst

Feb 2022 - July 2023

- Designed and developed feature-based systems across all stages of the development lifecycle.
- Analyzed current states to identify business and technical gaps, aligning solutions with client goals.
- Collaborated with clients to gather requirements, demonstrate functionality, and explain solutions.
- Prepared detailed functional specifications, wireframes, and flowcharts to guide development.
- Developed and enhanced user interfaces using React and implemented backend services with Java Spring Boot.
- Played a dual role as a Business Analyst and Software Engineer, bridging communication between technical and non-technical stakeholders.
- Technical Skills:** Feature design, system analysis, wireframing, frontend (React), backend (Java Spring Boot)
- Tools Used:** Jira, Confluence, Figma
- Soft Skills:** Requirement elicitation, stakeholder communication, problem-solving, Team collaboration, self-learning, time management

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Colombo, Sri Lanka

Intern Software Engineer

July 2021 - Jan 2022

- Contributed to building and maintaining an automated assessment platform to evaluate developers in real-world project environments.
- Designed mock wireframes and created accessible, responsive user interfaces using Angular and AWS.
- Developed REST APIs to connect frontend applications to backend services.
- Implemented and maintained backend services using Node.js and MongoDB.
- Collaborated closely with a cross-functional team to ensure the delivery of high-quality features and enhancements.
- Technical Skills:** Frontend (Angular), backend (Node.js, MongoDB, Serverless), API development
- Tools Used:** Figma, GitHub
- Soft Skills:** Team collaboration, problem-solving, self-learning, time management

Education

Virginia Tech

Blacksburg, VA, USA

(M.S. Computer Science and Application)

Jan 2023 - Dec 2024

- Cumulative GPA - 3.8

General Sir John Kotelawala Defence University

Ratmalana, Sri Lanka

(BSc (Hons) Computer Engineering)

Jan 2018 - Jan 2022

- Cumulative GPA - 3.5

Skills

Web Development	React, JavaScript, NodeJS, HTML, CSS, UI/UX design
Databases	MongoDB, MySQL
Version Control System	Git
Programming	JavaScript, Java, Python

Publications

Evaluation of Interactive Demonstration in Voice-assisted Counting for Young Children

Sulakna Karunaratna, Daniel Vargas-Diaz, Jisun Kim, Jenny Wang, Koeun Choi, Sang Won Lee

Companion Publication of the 2024 Conference on Computer-Supported Cooperative Work and Social Computing, 2024

TaleMate: Collaborating with Voice Agents for Parent-Child Joint Reading Experiences

Daniel Vargas-Diaz, Sulakna Karunaratna, Jisun Kim, Sang Won Lee, Koeun Choi

Sound Event Recognition and Classification Using Machine Learning Techniques

SBK Karunaratna, MWP Maduranga

International Research Conference of General Sir John Kotelawala Defence University (KDU IRC 2021), 2021, Ratamalana, Sri Lanka, 2021

Artificial intelligence on single board computers: An experiment on sound event classification

Sulakna Karunaratna, Pasan Maduranga

2021 5th SLAAI International Conference on Artificial Intelligence (SLAAI-ICAI), 2021

Projects

- Talemate – A Storytelling Platform for Children (Frontend Development - React)
- Counting App – Helping Children Learn Counting (Full Stack Development - React, NodeJS)
- Book Store WebApp (Full Stack Development - React, Java Springboot)
- A Vendor-Based Platform for Event Management (Frontend Development - React)
- An Assistant to Help with Coding Using OpenAPI and Prompt Engineering - Python

Volunteer and Leadership Experience

Leo Multiple District 306

Sri Lanka

Secretary of Leo Club of Biyagama North

Jan 2022 - Dec 2022

- Organized and led "Charitable Change," a multi-phase project involving collaboration with various schools to conduct leadership activities and provide essential items such as shoes, socks, and school uniforms to children in need. The initiative earned the 1st Runner-Up Award for Best Project in the Poverty and Better Life category.

IEEE Student Branch of KDU

Sri Lanka

Member of the Secretary Team

Jan 2020 - Dec 2021

- Help manage meeting schedules and prepare agendas to ensure effective communication.
- Supported the organization of events such as technical workshops.

Musaeus College Chess Team

Colombo, Sri Lanka

Woman's Chess Team Captain

Jan 2016 - Dec 2016

- Led the team to participate in national-level school chess tournaments, achieving notable performances.
- Organized and conducted regular practice sessions to improve team strategy and skills.
- Developed teamwork and a strong competitive spirit among team members.

Musaeus College Chess Club

Colombo, Sri Lanka

President of the chess club

Jan 2016 - Dec 2016

- Led and managed the Chess Club, organizing and overseeing club activities and meetings.
- Acted as a liaison between the club and school administration, ensuring smooth communication and event approval.
- Organized and hosted inter-house chess tournaments, fostering school-wide participation and promoting a spirit of friendly competition.

References

- Dr. Sang Won Lee
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- Mr. Vidura Dhananjaya Bandara
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Thank you for your consideration.