Premkumar Saarukesan

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saarukesan-premkumar   SaarukesanP

Profile

Computer Science undergraduate with strong full-stack development skills, good problem-solving abilities, and quick at adapting to new technologies. Capable of developing efficient, scalable, and visually appealing digital solutions that enhance user experience and meet complex requirements.

Education

Bachelor of Science Honours in Computer Science (Reading)   *Jun 2021 - Nov 2025*
University of Jaffna, Sri Lanka
CGPA: 3.21/4.00 (for 74 out of 120 credits)

G.C.E. Advanced Level (Mathematics Stream)   *2019*
St/Michael's College, Batticaloa
Z–Score - 1.1931

Research & Projects

Surface Defect Detection and Segmentation using Semi-Supervised Learning   *2025*
- An individual research project focused on developing an automated defect detection system based on a deep learning model to enhance efficiency in real-world industrial applications.
- *Technologies:* PyTorch

Hostel Management System for Welfare Branch, University of Jaffna   *2024*
- A web-based platform for streamlining hostel management at the University of Jaffna (part of MyUoJ). It simplifies hostel registration, management, and monitoring for students and administrators, enhancing campus life through digital solutions.
- *Technologies:* React.js, Node.js with Express.js, MySQL with Sequelize ORM
- *www.myuoj.jfn.ac.lk*   *www.mys.jfn.ac.lk*

Exam Registration System   *2023*
- A web-based system for streamlining exam registration at the Faculty of Science, University of Jaffna. It simplifies student registrations and administrative management, ensuring efficiency and accuracy in the exam process.
- *Technologies:* PHP, MySQL, JavaScript, Tailwind CSS
- *github.com/RNViththagan/ERS-Web_Technologies*

Skills

Web Development: React.js, Node.js, Express.js, PHP
Programming: Java, Python, C++, JavaScript, Perl
Database Management: MySQL, MongoDB, Sequelize ORM
IDEs & Tools: Visual Studio, IntelliJ IDEA, MATLAB, Postman
Design & UI/UX Tools: Figma, Adobe Photoshop, Adobe Illustrator

Communication Skills

Tamil: Native
English: Professional Proficiency

Volunteering

Editor, *Computer Society* , *University of Jaffna*   *Jan 2024 – Feb 2025*
Junior Editor, *Computer Society* , *University of Jaffna*   *Dec 2022 – Jan 2024*
Graphic Designer, *OceanBiome*   *Oct 2020 - Aug 2023*

Extracurricular Activity

Champion, *Provincial level Chess competition (Team), Eastern Province*   *2013, 2014*
2nd Runner up, *Provincial level Chess competition (Team), Eastern Province*   *2018*

Participations

Workshop on Mastering Deep Learning with Hands-on 2024   *17 Aug 2024*
IEEE Computer Society Student Branch Chapter, University of Jaffna

GeSSoMI-2024: Cybersecurity Bootcamp   *17 Jun 2024*
IEEE WIE Student Branch Affinity Group, University of Jaffna

Google exploreCSR Summer School on Machine Intelligence (GeSSoMI)   *14-16 Jun 2024*
Department of Computer Science, University of Jaffna, in collaboration with the University of Melbourne

Sri Lanka Student Workshop on Computer Science (SL-SWCS'23)   *9 Dec 2023*
Department of Computer Science, University of Jaffna

Research Methods in Computer Science: Theory and Ethics   *25 Nov 2023*
Department of Computer Science, University of Jaffna, in collaboration with the University of Melbourne

Referees

Dr. S. Mahesan
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Department of Computer Science,
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