KANISHKA DHARMARATHNE

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SUMMARY

I am a dedicated undergraduate student with a B.Sc.(Hons) in Applied Science in Faculty of Science, University of Peradeniya. I am actively seeking a career opportunity to achieve my career goals and utilize my extensive knowledge. With a focus on providing valuable experience, I aim to contribute effectively to a team, deliver high-quality results, and continuously develop my professional skills. I am eager to take on new challenges, grow in my role, and make a significant impact in the field of Computer Science.

EDUCATION

- B.Sc. (Hons) in Applied Science
  (Computer Science, Statistics, and Mathematics)
  Faculty of Science, University of Peradeniya.
  Coursework: Computer Architecture, Server-Side, OOP, Image Processing, Database Management, Artificial Intelligence, Software Engineering, Design and Analysis of Algorithms

PROJECT INVOLVEMENTS

- Ongoing Projects
  - SK ELectricals E-Commerse Platform(Web and Mobile Application)
    - Technologies : NextJS,TailwindCSS, ExpressJS, MongoDB,NodeJS
    - Developing a responsive e-commerce platform for SK Electricals with secure authentication, product catalog, and order management.
    - Building RESTful APIs with Express.js and integrating MongoDB for scalable data storage.
    - Implementing modern UI/UX with TailwindCSS and Next.js for optimal performance across devices.

- Done Projects
  - ClassMaster Tuition Class Management System(Web and Mobile Application)
    - Technologies : ReactJS, TalwindCSS , ExpressJS,MySQL,NodeJS
    - Built a full-stack web platform to streamline tuition class management for teachers, students, and institutes.
    - Developed responsive, user-friendly dashboards with React and Tailwind CSS.
    - Designed ER diagrams and Figma prototypes to model workflows and enhance usability.
    - Integrated backend using Express + MYSQL, ensuring secure and scalable data management.
    - Applied SDLC methodologies to deliver a maintainable and scalable system.

  - My Portifolio (Web and Mobile Responsive Appliction)
    - Technologies : NextJS, TailwindCSS, NodeJS
    - Designed and developed a fully responsive personal portfolio website to showcase projects and skills.
    - Implemented modern UI with TailwindCSS and optimized performance using Next.js.
    - Integrated backend functionality with Node.js for scalability and future feature extensions.

  - Smart Traffic Management System Using Image Processing Techniques in Python
    - Technologies : Python
    - Developed a real-time traffic light controller using vehicle detection at a three-way junction.
    - Processed live images and compared with background frames to calculate vehicle counts.
    - Dynamically adjusted traffic signal timers based on vehicle density.
    - Optimized image processing algorithms for accuracy and real-time performance.

PROFESSIONAL QUALIFICATIONS

- Part-Time Certificate Course in Professional English - National Youth Services Council

INVOLVEMENTS

- Former Vice President - Buddhist Brotherhood Association, Faculty of Science, University of Peradeniya
- Former Web Master - Society of Industrial Relations & Entrepreneurship Development, Faculty of Science, University of Peradeniya
- Former Junior Treasurer - Buddhist Brotherhood Association, Faculty of Science, University of Peradeniya
- Former Event Organizer - Himalayan Sub Committee, University Explorer's Club, University of Peradeniya

SKILLS

- Technical Skills
  - Programming Languages - C, Java, Python
  - Web Technologies - HTML, CSS, ReactJS, NextJS, Tailwind CSS
  - Database Management Systems - MYSQL,MongoDB, PostgreSQL
  - Automation and Testing Tools - Postman, Selinium, Playwright
  - Version Control - GitHub
  - Project Management & Issue Tracking Tools - Jira,ClickUp
  - User Interface Designing - Figma
  - Productivity & Collaboration Tools - MS Office, Dropbox, G Suite
- Languages - Sinhala (native), English (Fluent)
- Soft Skills - Teamwork, Problem Solving, Adaptability, Creativity, Time Management

REFERENCE

Dr. Erunika Dayarathne,
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