Samuditha Wijayasundara

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PERSONAL PROFILE

A versatile graduate with a background in Computer Science, IT, and Physics, showcasing a comprehensive skill set in software development, data analysis, and scientific research. Motivated by a passion for innovation, I am eager to contribute to challenging projects, leveraging my multidisciplinary knowledge and commitment to continual learning for impactful results.

EDUCATION

BSc. (Hons.) in Applied Science, University of Peradeniya, Kandy, Sri Lanka.
https://pdn.ac.lk   2019 - 2024
GPA: 3.09

BSc. (Hons.) in Information Technology, Sri Lanka Institute of Information
Technology, Malabe, Sri Lanka. https://www.sliit.lk   2020- 2023

MS in Computer Science, Indiana University,
Indianapolis, Indiana, USA (Currently pursuing)   2025-2027

RESEARCH EXPERIENCE

Experience 1 - Optimize Banana Production through Innovative Growing System   2022-2023
Department of Information Technology, Faculty of Computing, Sri Lanka Institute of Information Technology, Sri Lanka https://www.sliit.lk
Supervisor: Mr. Udara Srimath S. Samaratunge (Lecturer, Department of Information Technology, Faculty of Computing, Sri Lanka Institute of Information Technology)

- Collected 4000 dataset from farmers.
- There were three inputs: Verity, Quantity, Time Period and one output: Usage.
- Trained those data by RadomForest Classifier model.
- Made APIs for predict usage using Python.
- Made mobile application from React JS and connected backend APIs.

**Experience 2 - Air quality predicting system by PM 2.5 particles from the "Purple   2023-Present
Air" filter on the university premises.**
Department of Physics, Faculty of Science, University of Peradeniya, Sri Lanka
https://pdn.ac.lk
Supervisor: Dr. Kapila Bandara Wijayaratne (Lecturer, Department of Physics, University
 of Peradeniya, Sri Lanka

- Collected air quality measurements in 10 various places in university premises.
- Used PurpleAir Flex air filter system. The PurpleAir Flex is the latest air quality monitor from PurpleAir, measuring real-time PM2.5 concentrations for residential, commercial, or industrial use.
- Have been training those data by Logistic Regression model.
- Have been developing mobile application for predicting air quality by training above data using Python and React JS.

WORKING EXPERIENCES

Software Engineer
Elysian Crest Private Limited, Colombo, Sri Lanka   October 2022 – July 2024
- Drove backend development proficiency using Java and Node.js, managing databases with MySQL, MSSQL and MongoDB.
- Produced insightful reports through Jasper Studio.
- Integrated Google Analytics (GA4) with Looker Studio for comprehensive data analysis.
- Mentored junior software engineers, facilitating task completion.
- Took leadership roles within teams, providing support and guidance to members.

Software Engineer
Raketman Private Limited, Colombo, Sri Lanka   August 2024 - June 2025
- Working on backend development using Java, ASP .NET, VB .NET, Python and Node.js, managing databases such as MySQL, MSSQL and MongoDB.
- Integrating SAP APIs with third-party applications.
- Performing web scraping using Python and Selenium.
- Skilled in integrating payment gateways, including Stripe.
- Produced insightful reports through Jasper Studio.
- Mentoring junior software engineers to facilitate task completion and skill development.
- Taking leadership roles within teams, providing support and guidance to team members.

PROJECTS AND PERFORMANCE

- Developed a **gym management system** for the University of Peradeniya using React, MySQL, and Java Spring Boot. Features team and player profiles, equipment management, and an admin alert system. Enhances efficiency with a dynamic interface, secure backend, and timely communication tools.
- Created a comprehensive **student and note management system for a higher education center** using React, MySQL, and Java Spring Boot. The system facilitates student and course management, offers detailed PDF and Excel reports, and provides Gmail alerts. Improves administrative efficiency with a secure backend and advanced reporting capabilities.
- Developed a **robust e-commerce website** using React for the frontend, MySQL for database management, and Java Spring Boot for a secure and scalable backend. The platform seamlessly integrates product listings, shopping cart functionality, and secure payment gateways. Ensured a responsive user interface and efficient order processing for a seamless online shopping experience.

PUBLICATIONS

T.P.Wijewardena, K.A.D.C.Kaluarachchi, V.S.V.Vitharana, **W.M.S.D.Wijayasundara**, Udara Srimath S. Samaratunge, Arachchillage,Thilini Jayalath, "Optimize Banana Production through Innovative Growing System", **International Journal of Engineering and Management Research** (Vol. 13 No. 4 (2023): August Issue)
https://ijemr.vandanapublications.com/index.php/ijemr/article/view/1352/1229

SKILLS

Communication Skills | Digital Literacy | Problem-Solving & Critical Thinking | Time Management & Organization | Interpersonal & Leadership | Adaptability & Learning | Customer Service & Professional Skills | Microsoft Excel | Microsoft PowerPoint | Microsoft Word | Google Workspace | Email Management | Data Entry | Spreadsheet Analysis | Presentation Design | Document Formatting | Cloud Storage | Basic Accounting | Social Media Management | Video Conferencing | File Management | Internet Research | Database Management | Report Writing | Typing Skills | Calendar Management | CRM Software | Basic Design | Adobe PDF | Online Collaboration Tools

Programming Languages & Web Development: Java, Python, C++, JavaScript, C , HTML, CSS, React, Node.js, Springboot | **Database Management**: MySQL, MongoDB | **Machine Learning**: TensorFlow, scikit-learn | **Cloud Technologies**: AWS, Azure | **Software Development**: Agile, Git | **Cybersecurity**: Encryption, Firewalls | **Networking** | **Operating Systems**: Linux, Windows | **Data Structures and Algorithms** | **Problem Solving and Critical Thinking** | **Object-Oriented Design** | **User Interface (UI) and User Experience (UX) Design** | **Mobile App Development**: Android, iOS | **Version Control**: Git, GitHub | **Debugging and Testing.**

EXTRA CURRICULAR ACTIVITIES

- Avenue Director, Leo Club, University of Peradeniya, Sri Lanka — 2022 - 2023
- Student Representative, Computer Science Society, Department of Computer Science and Statistics, University of Peradeniya, Sri Lanka. — 2021 - 2023
- Secretary, Tuskers Volunteer Club, Sri Lanka. — 2021 - 2022
- Member, Tuskers Volunteer Club, Sri Lanka. — 2017 - 2021
- Treasurer, Science Society, Bandaranayake College, Gampaha, Sri Lanka — 2015 - 2016
- Member of Sri Lanka club cricket team for MSSNS U17 international Invitation Cricket Challenge Seremban Negeri Sembilan in Malaysia. — 2012
- All island (Sri Lanka) under 13 school cricket 4th place team member (Division 1) — 2010 - 2011
- All island (Sri Lanka) under 13 school cricket 4th place team member (Division 2) — 2009 - 2010
- Cub scout gold star holder — 2003- 2005

REFEREES

Dr. Kapila Bandara Wijayaratne
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