WIJITH PATHIRANAGE

DATA & SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer & Data Scientist with a Master's in Data Science and over 5 years of experience in software development, data engineering, and digital marketing. Proficient in Java, Python, ReactJS, NodeJS, and NextJS, with expertise in data analysis, API integration, and system optimization. Skilled in Power BI, DAX, Azure Databricks, Azure Functions, Microsoft Fabric, and Kusto DB, with hands-on experience in IoT projects and Arduino programming. Proven leadership abilities from managing a successful business and leading a team to achieve revenue growth. Passionate about leveraging technology to solve complex problems and drive organizational efficiency.

EDUCATION

2022 - 2024
FLINDERS UNIVERSITY, SOUTH AUSTRALIA

- Masters of Data Science with Research
- GPA : 6.18 / 7.0
- Relevant Coursework: Data Engineering, Artificial Intelligence, Statistical Analysis, Geospatial Information Systems, Networks and Cybersecurity.

2012 - 2016
EASTERN UNIVERSITY, SRI LANKA

- Bsc in physical science, special in computer science with Research
- GPA : 3.08 / 4.0

WORK EXPERIENCE

Application Developer & Independent Service Provider
Dialog Axiata PLC, Sri Lanka | 2020 – 2022

Developed and promoted mobile applications using Dialog Axiata platforms, leading a team to achieve business objectives.

- Built and managed a business developing mobile applications, achieving top revenue-generating app recognition in 2021, contributing to a 25% increase in annual revenue.
- Utilized social media analytics and user data to optimize marketing strategies, resulting in a 40% increase in user engagement and a 15% growth in app downloads.
- Technologies & Tools: Excel, Google Analytics, Facebook Business Manager, Adobe Photoshop, Filmora.

Software Engineer
WSO2 Lanka (Pvt) Ltd | 2018 – 2020

Full-stack development, API management, and system optimization for a leading open-source integration vendor.

CERTIFICATIONS

- Google Data Analytics Professional Certificate – Coursera (2024)
- Python Data Structures – University of Michigan (2023)
- Fundamentals of Digital Marketing – Google Digital Garage (2020)
- Human Resource Management (Advanced Certificate)

Key Contributions

- API Manager Team
    - Designed and developed a web application using ReactJS and Ballerina to demonstrate WSO2 API Manager capabilities, resulting in a 20% increase in client engagement during product demonstrations.
    - Automated setup processes and documented architecture, improving deployment efficiency by 30% and reducing onboarding time for new developers by 25%.
    - Technologies: ReactJS, Ballerina, JavaScript, REST APIs.
- Rapid Response Team
    - Developed a CASQUE Authenticator using CASQUE SNR multi-factor authentication, enhancing system security.
    - Improved existing codebases, resolved high-priority bugs, and conducted end-to-end testing, reducing production issues by 15%.
    - Technologies: Java, CASQUE SNR, Jenkins.
- Identity and Access Management (IAM) Team
    - Fixed connector property loading issues and improved consent management authorization handling, resulting in a 20% reduction in user complaints related to access issues.
    - Enhanced performance by implementing factory bean classes and optimizing DCR flow for applications with 500k+ users, reducing response time by 25%.
    - Technologies: Java, MySQL, SCIM, JMeter.
- Product Excellence Task
    - Implemented the "Docs-as-Code" model, integrating documentation with the development process using Git, Jenkins, and Netlify, reducing documentation errors by 30% and improving team collaboration.
    - Designed the documentation architecture and conducted training sessions for cross-functional teams.
    - Technologies: Shell Script, mkdocs, Jenkins, Git.

Freelance Software & Web Developer
2016 -2020

Delivered custom software solutions for healthcare, retail, and web development projects.

- Developed a Healthcare Management System for private medical practices, reducing patient wait times by 20% and improving drug inventory accuracy by 30%.
- Designed Point of Sale (POS) systems for small businesses, improving transaction efficiency.
- Technologies: Java, WordPress, ReactJS, NodeJS, MySQL, SQLite.

A C H I E V M E N T S

- Finalist for Best Project Award in Maths & Data Science at Flinders University.
- Chancellor's Letter of Commendation from Flinders University for outstanding academic performance.
- Golden Key International Honour Society invitation , representing top 15% student in Flinders University
- Winner of Best Revenue Generating App Award – Recognized by Dialog Axiata in 2021 for creating the top-performing application in a competition, driving exceptional revenue growth.
- 1 St place in photography World Environment Day & Ocean Day Competition in Eastern University.

P R O J E C T S

Emergency Department Functionality Analysis Using Network Graph Approach

Analyzed emergency department efficiency using network graphs, focusing on transfer of care time and unit connections. Applied the Louvain algorithm to identify bottlenecks and improve patient flow.
Read more on Medium: A Finalist for the Best Research Award

Healthcare Dashboard in Power BI

Developed an interactive Power BI dashboard to analyze healthcare data, improving data visualization and decision-making. Implemented key metrics and insights for better healthcare management.
Read more on Medium: Healthcare Dashboard Project

Real-Time Weather Data Streaming and Analytics System

- Developing a real-time weather monitoring system using Weather API for data ingestion.
- Implementing data streaming pipelines with Azure Databricks, Azure Functions, and Event Hub.
- Leveraging Microsoft Fabric for real-time intelligence and Kusto DB for data storage.
- Building an interactive Power BI dashboard for visualization and setting up real-time alerts for extreme weather conditions using Data Activator.

Read more on Medium : Real-Time Data Streaming Project

Arduino Passion Project

Explored engineering and problem-solving through hands-on Arduino projects, fostering creativity and technical skills.
Read more on Medium: How Arduino Sparked My Passion

R E F E R E N C E S

Available upon request.

- Operating Systems
  - Linux, MacOS ,Windows
- IDEAs
  - Intellij, VSCode, vim, nano
- Geospatial Information Systems
  - ArcGIS
- Image Processing
- Photoshop, Filmora & Content Production tools

E X T R A   A C T I V I T I E S

- Technology enthusiast
- Reader
- Writer
- Singer
- Rythm guitarist
- Photographer
- Traveller