NIVARTHANA SANDEEPANI

Consultant Fullstack Developer

Enthusiastic software engineer with 4+ years of experience actively involved in every stage of the product development lifecycle, contributing to the successful launch of various applications. Demonstrated expertise in enhancing IOT, web and mobile functionalities to optimize workflow efficiency. Have a proven record of high adaptability to new technologies and Thrives on tackling new , challenging, and engaging objectives with unwavering passion

Github Linkedin	+94715703427
Delgoda, Western Province, Sri Lanka	niva2sandeepani@gmail.com

TECH SKILLS

- Technologies : Arduino, Node MCU, Raspberry Pi, Kotlin, Python, SpringBoot, Java, Javascript, CSS, MySQL, SQL, DB2 , IBM BAW, Python, Angular, ionic, Azure, c#, ReactJs, NodeJs, html, css, Mobile Development, Web Development,AWS Lambda functions, GraphQL, Amplify, AWS Appsync, AWS S3,
- Framework : Spring boot, Angular , Hibernate, Bootstrap
- Database : Mongodb, MySQL, PostgreSQL, Firebase, DB2
- IDE : Intellij, Microsoft Visual Studio Code, PgAdmin, Android Studio, XCode
- Servers : Tomcat, Apache, IBM Websphere
- Project Management : Git, Bitbucket, Jira, Confluence

WORK EXPERIENCE

ZENSON (PVT) LTD| Founder, CEO

- Engaged in Software development for IOT and AI related products
- Worked closely with Arduino, ESP 32
- Integration with multiple sensors
- Designed Architecture for the distributed solution and implemented it
- Engaged in end to end development from requirement analysis, planning, development, implementation support and monitoring live solutions
- Engaged in Pitching and Presenting product to prospect clients and professionals
- **Tools and Technologies:** Arduino, ESP 32, Firebase, MQTT, Kafka, Hadoop, React Js, Node Js, Python,ARIMA

PEKOE (PTE) LTD(singapore)| Consultant Fullstack Developer (Remote)

August 2023 - Present

- Engaged in Software development related to AI related products
- Worked closely with AWS ecosystem, Python and API integration
- Engaged in Mobile development with kotlin
- Engaged in end to end development from requirement analysis, planning, development, implementation support and monitoring live solutions
- Utilizing LLMs like ChatGPT, Bard, Bing etc to increase efficiency in development process and automate tasks
- **Tools and Technologies:** Kotlin, Python, AWS Lambda functions, GraphQL, Amplify, AWS Appsync, AWS S3, Postgres,Android Studio

TIQRI (PRIVATE) LTD| Software Engineer June 2021- July 2023

- Quickly adapted to unfamiliar technologies through self-learning and online courses for various projects.
- Investigated options to integrate new front-end and back-end with existing client tech stack.
- Actively participated in requirement gathering, design reviews, and product development meetings to ensure clarity and meet deadlines.
- Developed front end components and Backend services (both web and mobile development) to meet the business requirements,Engaged in Staging and Production deployment procedures
- Actively engaged in organizing events and team building activities to promote company and to energize team members.
- **Tools and Technologies:** SpringBoot, Java, Javascript, CSS, MySQL, SQL, DB2 , IBM BAW, Python, Angular, ionic, Azure, c#, Mobile Development, Web Development, XCode, Android Studio

N*ABLE (PRIVATE) LTD| Associate Software Engineer

December 2019 – June 2021
- Engaged majorly in developing Business Workflow Automations on IBM BPM Platform.
- Working on analyzing requirements, making design documents, developing and unit testing in workflows developed based on agile methodologies.
- Engaged in projects in Telecommunication and Banking sector
- **Tools and Technologies :** Java, Javascript, SQL, CSS, DB2

SK INTERNATIONAL HOLDINGS| Network Administrator October 2017 - March 2018

- Engaged in Development and Networking projects
- https://github.com/nivarthana1994/network-Architectures
- Focused majorly on Industrial Training Project
- **Tools and Technologies :**Windows Server, Php, Mysl, Html, CSS

STAR GARMENTS| Human Resource Development Intern October 2014 - April 2015
- Engaged in Training and Development functions and Designing of the annual magazine of the organization

EDUCATION

B.SC. (SPECIAL) IN COMPUTING AND INFORMATION SYSTEMS , Sabaragamuwa University

Obtained a Second Class Upper Degree with a GPA of 3.40.

PROJECTS
Water Quality Monitoring and Prediction Solution - IOT/AI (At Zenson)
- Domain: Water Management
- Technologies: Arduino, ESP 32, Firebase, MQTT, Kafka, Hadoop, React Js, Node Js, Python,ARIMA
- Engaged in one year collaborative research with National Water Supply and Drainage Board
- Analyzed Requirements, Designed Architecture, Implemented Architecture and engaged in development of the solution
- Two research publications at International Conferences
- Recognized by UNDP
- Won NBQSA Gold Award - Research and Development Project - Commercial Category - 2023

Weather API (At Pekoe)
- Domain: Tea Industry
- Technologies: python, AWS Lambda functions, API integration
- Created Design document and engaged in development of getting data from API and storing into DB
- Investigated and did comparison on APIs

Mobile Application 1 (At Pekoe)
- Domain: Tea Industry
- Technologies: Kotlin, GraphQL, Amplify, AWS S3, Python, API integration
- Analyzed requirements, planned development, Created Design document and engaged in development of the entire app from scratch(fullstack)
- Implementation support and feature improvements done until app could be used for business processes

Mobile Application 2 (At Pekoe)
- Domain: Tea Industry
- Technologies: Kotlin, AWS Lambda functions, Python, GraphQL, Amplify, AWS Appsync, AWS S3, Postgres
- Analyzed requirements, planned development, Created Design document and engaged in development of the entire app from scratch(fullstack)
- API integrations, subscription call handling and advanced functions and advanced sharing and matching feature changes were developed

Pre-sales – Global team(At TIQRI)
- Domain: Marketing – pre sales – global team
- Technologies: python, Data Mining, API integration
- Engaged Technical in Research on web crawling, Optical Character Recognition and archival search to extract data and patterns from marketing flyers of clients.
- Investigated the available options of APIs, Libraries and Online tools that suit client requirements.

Amex Bahrain (At TIQRI)
- Domain: Banking
- Technologies: IBM Business Automation Workflow, IBM Web Experience Factory, JavaScript, Java, SQL, API integration
- Engaged in POC development for the refund module and requirement analysis and design phases of refund management and dispute handling.
- Application Servers - Apache tomcat, WebSphere Application Server, and Portal Server

E-visitor(At TIQRI)
- Domain: General Visitor Management
- Technologies: Spring Boot, MySQL, VueJs, API integration
- Application allows visitors to manage access to different areas of an organization.
- Engaged in Backend Development
- Version control tools - Git (Bitbucket), Agile Methodologies - Scrum , Issue tracking tools JIRA

Internal Systems(At TIQRI)
- Domain: Internal Organizational Processes
- Technologies: .Net, Angular
- Engaged in Bug fixing and feature enhancements in below Systems:
  - Resource Management System: for internal resource Management.
  - MyTime: system internal monitoring and approval process of tasks done by employees.
  - MyLeave: system internal monitoring and approval process of Leaves taken by employees.
- DevOps and Task Management: Azure
- Agile Methodologies - Scrum

Cushman and Wakefield Mobility(At TIQRI) - Fortune 500 Client
- Domain: Real-estate business
- Technologies: .Net, ionic
- Mobile Deployment tools: Android Studio, Xcode for iOS
- Engaged in front-end Development using ionic.
  - Engaged in Bug fixing and feature enhancements in below Systems which are used in raising service requests when needed and other real estate business functions:
    - Service Request Mobile Application (Mobility 2) -Operated in Australia
    - Service Request Web Application (Mobility 2) – Operated in Australia
    - Mobility 1 Mobile Application - Operated in Singapore
- Engaged staging and production deployments of web application and mobile application (for both android app and iOS app).
- Preparing documentation to implement project practices in giving production releases.
- Agile Methodologies - Scrum
- DevOps and Task Management: Azure

Cushman and Wakefield Capture (At TIQRI)
- Domain: Real-estate business (Document Management)
- Technologies: .Net, angular,API integration
- Conducted initial development using Angular, following a comprehensive understanding of client requirements and project setup.
- Conducted thorough investigation and comprehension of the client's customized framework.
- Involved in the staging release phase.

Workflow Automation Projects (At N*able)
- Advance Request and Settlement Process Workflow
- Change to Existing Product – Change Management Process Workflow
  (for hutchison (Pvt) Ltd)
- Special Request – User ID Management
  (for Commercial Bank)
- Tools and Technologies : IBM BPM Platform, Java,
  Javascript, SQL, DB2, Html, CSS

Final Year Research Project
- Topic : Design, Development and Implementation of an Architecture for an Open Source IOT (Internet Of Things) Based Solution for Water Quality Monitoring And Prediction in Natural Water Sources in Sri Lanka
- Tools and Technologies Used : Arduino, MQTT, Nifi, Kafka, Hadoop, Hive, Spark, Python, API integration

Industrial Training Project
- Topic : Planning and Implementing Total Network Solution and Developing Easy-Upload Cloud Application
- Url: https://tinyurl.com/463vev75
- Tools and Technologies Used : PHP , mySQL , Windows based Network

PUBLICATIONS

• A Low Cost Internet of Things(IOT) Based Solution for Remote Online Water Quality Monitoring in Water Resources
o Conference : Research and Development Symposium in Collaboration with
International Water Association(IWA) World Water Congress & Exhibition 2019
o 2nd December, 2019

• Architecture for an Open Source IOT (Internet of Things) Based Solution for Water Quality Monitoring and Prediction of Natural Water Sources in Sri Lanka
o Conference : **Rajarata International Research Conference 2019** - 6th October, 2019

ADDITIONAL ACTIVITIES (INDUSTRY RELATED)

Won
• Third place (Team Fightress) from SHECODERess coding competition organized by IEEE Women in engineering branch of Uva Wellassa University
• First place (Team Influenzer) from Technology and Design Innovation workshop Organized by Augmented Human Labs, New Zealand and Foundation of Goodness, Sri Lanka
•Winners (Team Zenson) of HackaDev Economic Resilience Seed funding and Incubation Program by UNDP and CurveUp
•Winners (Team Zenson) of Gold award - Research and Development Project of the Year(Commercial Category) -
NBQSA National Awards 2023
Competed in
• Final 8 – Sri Lankan Finals of Global Competition SheLoves Tech – Team NivIT(alias Zenson) – startup competition
• Finals of HackaDev 2018 (Team Break IT), in Social Innovation Camp at Cinnamon Bey Beruwala

EXTRA – CURRICULAR ACTIVITIES

✓ **Vice captain** of swimming team (2017) and participated for Inter university games (2015-2018)
✓ **Member** of Media, Environmental and English subcommittees at university
✓ **Sgt** of the platoon that won all island 1st place at Diyathalawa Air Wing Girls' cadet camp, 2011
✓ A **girl guide**, **prefect**, **debater** and **announcer** at school
✓ **Deputy Head Prefect** at Sri Dharmaraja Dhamma school,Meegahawatta, 2010

NON-RELATED REFEREES

Harshana Samaranayake **in**
Associate Tech Lead
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Tharindu Kaluaarachchi **in**
 Chief Technical Officer
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