





# THUSHARA BUDDHIKA

SENIOR SOFTWARE ENGINEER

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 Bucharest, Romania

## CERTIFICATIONS

**2024-10:** Microsoft Certified: Azure Solutions Architect Expert (AZ-305)

**2024-06:** Microsoft Certified: Azure Administrator Associate (AZ-104)

**2023-05:** Certified Kubernetes Administrator (CKA)

**2023-06:** VMware Certified Professional - AM 2023 (VCP-AM 2023)

**2023-12:** AWS Certified Developer – Associate (DVA-C02)

## SKILLS

### Backend Developments:

Golang, Python, Java, PHP, NodeJS

### Frontend Developments:

ReactJS, Angular, JS, CSS, jQuery, AJAX, JSP

### Mobile Developments:

Android, PhoneGap

### Databases:

MySQL, PostgreSQL, SQLite, MongoDB, DynamoDB

### Virtualization:

Docker, Kubernetes,

### Visualization:

Grafana, BIRT Report

### Cloud:

AWS, Azure, VMWare, WS02, Hetzner

### Web:

LetsEncrypt, CloudFlare, PayPro

### Version Control:

Git, Github, Gitlab, Bitbucket,

### ORM:

Hybernate,

## WORK EXPERIENCE

 **dvloper.io, Romania**, Software System Engineer

2022-12 - PRESENT

### File Processing Application

Application is developed to filter the company user profiles which are stored in GitLab in .md format by adding various search criteria. The program is processing the Markdown files and stores the processed data in MongoDB and used them to generate various resume formats such as Europass, Brillio, and Worldbank. The Program is syncing the new GitLab file updates with the database automatically.

### Modernising Agricultural Process

Application is providing automated functionality for most of the services in an agricultural farm such as Weather prediction, Harvest prediction, Pest and Crop health warning alerts, Suggestions to increase the outcome, and many more. Implementing new features and enhancing the existing process, Enabling SSO login with Google and Facebook, Designing and implementing the Subscription Model with PayPro, Enable Platform features according to the Subscription, and code migration from ReactJS to AngularJS are the highlighted areas that I was part of.

### Short URL

It's a widely used platform to create short links and the project is about to migrate the infrastructure by creating new dev, staging, and production clusters as well as splitting down the large monolith application into microservices.

 **Mitra Innovations (Pvt) Ltd, Sri Lanka**, Associate Technical Lead

2021-05 - 2022-12

### Single Sign-On Solution - UK

The configurable SSO feature is developed for a leading VRpresentation creation company in the UK. The existing system got

**Frameworks:**

SpringMVC, Laravel, SpringBoot

**IDE:**

IntelliJ IDEA, VSCode, Eclipse

**App:**

KeyCloak, Sentinel Satellite Data

**Special:**

QA, Customer Handling, Self Learning

## PROJECTS

**Face Detection System – Degree Project**

The system is proposed for the Midwives offices in Sri Lanka to automate the attendance marking of the registered mothers. The system used the premise CCTV system and with video footage of the camera system identified the registered people faces and mark the attendance. The back-end of the system is developed with Golang by using the OpenCV library. The front-end of the application is developed with the PHP and uses MySQL database.

## EDUCATION

**BSc (Hons) In Computer Systems and Computing**

University of Greenwich, UK

2019 - 2020

**First Class**

- Database Engineering
- Information Technology Planning
- Development, Frameworks, and Methods
- Enterprise Web Software Development
- Application Development for Mobile Devices
- Programming Distributed Components
- Final Project with PHP, Golang, MySQL

**Diploma in Software Engineering**

National Institute, Business Management, Sri Lanka

2014 - 2015

**GPA – 3.88 / 4.00 (Distinction)**

- Programming with C, C++, JAVA, J2EE
- Database Management (SQL)
- Software Engineering
- Internet Technology

only basic authentication for each client company. But with the proposed solution it can be configured any identity provider that the client company is using. The solution is based on the base protocols of the SSO such as OpenID Connect and SAML so that any identity provider that follows these protocols can be configured with the system. And client users can switch between the authentication method at any time. The implemented feature is appended with minimum effect to the current workflow. The system is having Golang back-end API and a React front-end with role-based access. There are separate services that use to create augmented reality presentations which are developed with PHP, WebXR, React, and Socket.io. All the access is controlled by the access token that generated with the login.

**Chat-Bot Solution - UK**

The Chat-Bot solution is developed for a leading Law firm company in the UK to automate personal assistant services. By interacting with the bot users can tell their intents in natural language and schedule a meeting with one of the lawyers in many law sectors. The bot is interacting with the users in a human manner and collects the information to schedule a meeting and provides the info that users asked. The Bot is developed using the Azure Bot Framework and it's using Active Directory as a user store and Cognitive services such as LUIS and QnA for natural language understanding. The bot can be embedded into many channels such as MS Teams, Slack, WhatsApp, and any web page. The Project is evolving for voice recognition, email requests, and legal document search by using Azure services.

**Secure and Automated Infrastructure Deployment in Azure**

It automatically deploys an Industrial level infrastructure to Azure. All the resources with features such as auto-scaling, logs, and backups are saved in a .yaml file. With Azure Repos and using infrastructure deployment Pipelines, all the resources are deployed to Azure. For the infrastructure setup, it includes services such as Azure Web Services - App service with auto-scaling, FrontDoor services, Web app firewall, Traffic Load balancer, Static and dynamic content caching, Private endpoint, Storage account, Key Vault Blob storage, Premium managed disks, Postgres flexible server, Azure monitor. For testing purposes, Strapi CMS is deployed to the AppService and enabled via Frontdoor services.

**Special Tasks Experienced**

- Get the responsibility from the beginning of the SSO project along with the Discovery Phase, research a proper solution, Technical Design, Documentation, Implementation, Testing, and Delivery.
- Removing web security vulnerabilities such as User Enumeration, SQL Injection, Sensitive Data Exposure, and Secure Authentication Issues in the system
- Self-learning the VR rendering, streaming on browser and VR headsets, Azure web services, Dynamic SSO provider configuration with Key-Cloak broker functionality, and Azure chat-bot solution-related stuff.

 **Electrify Pte Ltd, Singapore**, Senior Full Stack Engineer

2019-10 - 2021-05

**P2P Energy Trading Project - Singapore**

The project is giving solution for peer-to-peer energy trading among Singapore electricity users. Through the developed platform, citizens can sell their excess energy to other citizens. With that, it's seeking 100% green energy consumption in Singapore. This happens via a paper settlement between electricity consumers and sellers so that they can reduce brown energy consumption. The system is giving access customers to view their detailed usage with a web login and make payments through it. Even though the current system handles

- Computer Architecture • Business Information
- Final Project with Java

### Diploma in English

2011 - 2012

### Certificate in Computer Hardware Engineering

2009 - 2010

### GCE (Advanced Level) Examination 2010

R/Eheliyagoda Central College, Sri Lanka

**Z Score 0.9657**

- Physical Science stream - 3 - C

### GCE (Ordinary Level) Examination 2006

R/Eheliyagoda Central College, Sri Lanka

- 9 - A 3 - B 1 - C

### INTERESTS

- Chess
- Foot Ball
- Scouting
- Movies
- Music

### REFERENCES

#### Mr. K.A.G. Wickramasinghe

Senior Manager (HR & Administrator)  
State Development & Construction Cooperation  
No.07, Borupana Road,  
Rathmalana, Sri Lanka  
+94 11 263 8014 / +94 77 759 8578

#### Mr. Devinda Kollonnage

Project Manager  
Mitra Innovations Pvt Ltd.  
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Moratuwa, Sri Lanka  
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Solarenergy, it can be expanded to all other energy sources such as Coal, Seawaves, etc. It's hoping to deploy in other countries, such as Australia. The back end is developed with Golang, PHP, and Python while the front end is React. The system is deployed with AWS cloud services and uses the DynamoDB and Postgres databases. The process is running in every 30 minutes with a heavy data load.

### Special Tasks Experienced

- Migrating the PHP codebase to the Golang codebase, supporting the Golang microservices architecture.
- Optimising the PHP codebase performance by identifying time-consuming SQL queries, Memory leaks, and code optimizations.
- Creating Voice recognition deployment with Alexa and Code Commit pipelines in Amazon web services for the AWS global summit.

#### **hSenid International Business Solution**, Senior Software Engineer

2014-08 - 2019-10

#### **e-Local Government Project – Sri Lanka**

The eLG project was conducted by the Sri Lankan government to automate the back-office functionality of the Local Authorities in Sri Lanka. The proposed system is a server-based Java project to design and implement a scalable, SaaS-oriented system. With its re-engineering of the local workflows and improving public service delivery. The system delivers a centralized infrastructure and customizable interface for each local authority. The system is hosted in secured government servers and services are delivered with the existing Sri Lanka Government Network. It is using the WS02 server stack such as WS02 Stratos, WS02 Identity Server, WS02 BAM, and WS02 BPS with the multi-tenancy approach to delivering an island-wide government service. The system also can access by the citizens, enterprise-wide business analytics, and auditing services. The eLG contains four major components such as follows Product, Solution, Citizens Portal, and Mobile Application. The web-based system is implemented with Java back-end with Spring Framework. It is using MySQL and Mongo databases via the Hibernate ORM. It uses MVC architecture with JSP, jQuery, JavaScript, and CSS while Struts2 with tiles is used as the controller.

### Special Tasks Experienced

- Migrating in-house DB2 database and Access database data to cloud MySQL database.
- Spring Batch Processing for large amounts of data that are saved in both MySQL and MongoDB.
- Support customers by based on the customer's place

#### **State Development & Construction Corporation, Sri Lanka**, Assistant Programmer

2013-08 - 2014-08

#### **KFC Fast-Food Restaurants, Sri Lanka**, Crew Member

2012-05 - 2013-08