



PASINDU UDUWELA

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Portfolio: dhanushka365.github.io/portfolio/

PROFILE

Energetic and adaptable Computer Engineer with over three years of industry experience as a Full Stack Software Engineer, specializing in developing scalable web applications and delivering high-quality software solutions. Highly skilled in managing all aspects of the software development life cycle, from conception to deployment, with expertise in providing cutting-edge Computer Engineering solutions. Demonstrated strong problem-solving abilities, database management expertise, and a results-driven approach to executing complex software tasks within project deadlines.

EDUCATION

BSc. Eng. (Hons) in Computer Engineering

2019 – 2023

Faculty of Engineering University of Sri Jayewardenepura

Mount Lavinia, Sri Lanka

Class : Second Class Honors (Upper Division)

Minor : Data Management.

GPA(Overall- 8 semesters) : 3.37/4.0.

[Degree Certificate](#) [Academic Transcript](#)

Diploma in Software Engineering (D.S.E-17.2)

2017 – 2018

National Institute of Business Management

Colombo 07, Sri Lanka

GPA : 4.0/4.0

[Degree Certificate](#) [Academic Transcript](#)

G.C.E Advanced Level Examination (2017)

2013 – 2015

Taxila Central College

Horana, Sri Lanka

Result: Combined Math-A, Physics-B, Chemistry- B

Z-Score: 1.7112

District Rank: 59 (Kaluthara)

[A/L Certificate](#) [GIT Certificate](#)

G.C.E. O/L Examination (2012))

2001 – 2012

Don Pedrick College (Horana)

Horana, Sri Lanka

Result: 7 Distinctions (7 A's) and 2 Very Good passes (2 B's), including ICT

[O/L Certificate](#)

WORK EXPERIENCE

Software Engineer

July 2025 – February 2026

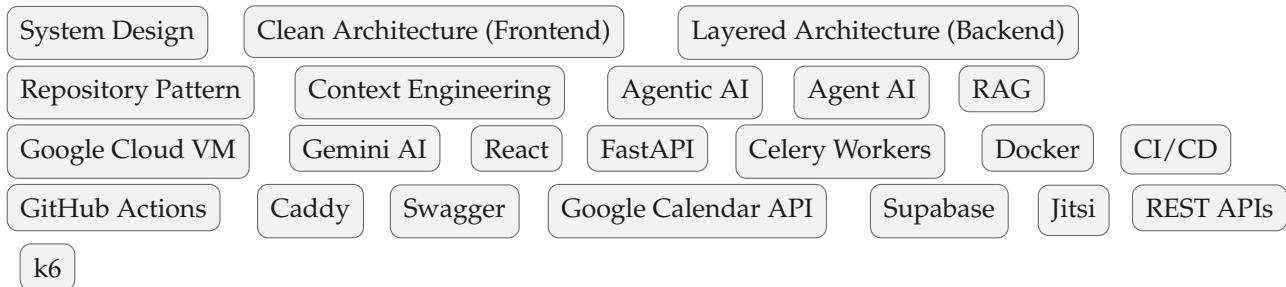
Huex GmbH • [Service Letter](#) • [Tasks](#)

Germany, Remote

- Full-Stack Developer and System Designer on Talport, a talent vetting platform using human and AI-powered interviews in HR & Talent Intelligence.
- Designed an AI-driven interview platform using context and prompt engineering to enhance interview quality and candidate assessment.
- Managed Google Cloud VMs ensuring high availability, scalability, and security.

- Integrated Google Gemini models to conduct AI-powered interviews with deep contextual understanding and designed intelligent question-and-answer evaluation mechanisms to accurately assess candidate responses.
- Designed and developed interview scoring, analytics, and candidate ranking systems to enable data-driven hiring decisions.
- Containerized both frontend and backend applications using Docker, ensuring consistency across development, testing, and production environments, and designed automated CI/CD pipelines using GitHub Actions with separate environments for testing and production, branching strategies, and deployments to separate Google Cloud VMs.
- Integrated Caddy as a reverse proxy for automatic SSL certificate generation, HTTPS enforcement, and domain configuration, ensuring secure communication and improved SEO.
- Refactored the entire frontend application using Clean Architecture principles in React, focusing on separation of concerns, reusable modular components, maintainable folder structure, and improved state management, and restructured the backend using layered architecture with FastAPI, clearly separating API layer, business logic, data access layer, and infrastructure.
- Integrated Swagger (OpenAPI) into the backend to provide interactive API documentation and implemented end-to-end encryption and security mechanisms to secure candidate information, prevent unauthorized data scraping, and enforce controlled access to sensitive endpoints.
- Implemented k6 performance and load testing for backend API endpoints to validate scalability and reliability, and maintained environment-specific configurations using GitHub encrypted variables and secrets for secure deployments.
- Integrated Google Calendar APIs to automate interview scheduling and event management, and designed a self-hosted internal meeting solution using Jitsi for secure video conferencing.
- Designed and implemented automated database and Supabase Edge Function migration workflows, enabling seamless SQL schema migrations and Edge Function deployments on project startup, and authored comprehensive technical documentation for features and system architecture using Confluence.
- Researched and currently developing an agentic AI approach to build an automated, self-improving interview question bank system and integrated AI-powered question banks directly into live interviews to dynamically generate role- and skill-specific interview flows.
- Mentored junior developers through code reviews, architectural discussions, and best-practice guidance.

Technologies & Design Patterns:



Software Engineer

Drifting Desk LLC • 📧 Service Letter • ⚙ Tasks

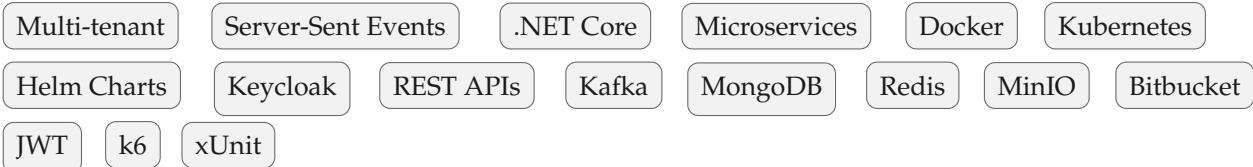
January 2016 – July 2016

USA, Remote

- Worked as a .NET Core backend developer on an AI-driven multi-tenant hotel management platform, developed booking optimization and competitor intelligence features for a European client, and integrated cutting-edge AI, real-time data analysis, and automation to help hotel chains make smarter decisions.
- Developed scalable CRUD modules with Kafka integration for seamless internal microservice communication and implemented Request Response and Fire-and-forget patterns for external system communication.
- Built a centralized Anti-XSS middleware and developed a unified access management mechanism to enforce security across all frontend and backend APIs.
- Researched Hangfire job strategies and designed and implemented a similar job execution strategy using .NET Worker Services for recurring tasks and large-scale data imports.
- Implemented .NET Server-Sent Events (SSE) for real-time chart updates and live table updates.
- Conducted K6 performance tests and comprehensive performance testing to validate system reliability and scalability.

- Integrated Keycloak REST APIs for secure, multi-tenant authentication and implemented user management using Keycloak integration.
- Researched and implemented Kafka consumer parallelism to enhance real-time data processing capabilities and developed custom pagination logic for efficient rendering of large datasets.
- Configured Bitbucket Pipelines to dynamically read Helm chart values, enabled environment-specific deployments through automated pipeline configuration, and integrated security vulnerability scans into the pipeline to improve CI/CD security compliance.
- Mentored junior developers on architecture, coding standards, and secure development practices.

Technologies & Design Patterns:



Associate Software Engineer

ICP Technologies (Pvt.) Ltd • 📧 Service Letter • 📈 Tasks

August 2023 – July 2024

Sri Jayewardenepura Kotte, Sri Lanka

Accounting Software - Enterprise Management Domain (4 Months)

- Designed and setup backend core architecture, committed the initial project to a private Azure repository, updated wiki pages, and implemented a centralized audit & request logs mechanism using Spring AOP, Filters, and handler interceptors.
- Developed initial RESTful endpoints for the backend services, wrote unit test cases to ensure high code quality, and introduced dynamic queries to enhance the flexibility and efficiency of the data access layer.
- Mentored junior developers to enhance their skills and knowledge.

Technologies & Design Patterns:



Banking Application - FinTech Domain (7+ Months)

- Primarily worked as a .NET Core backend developer for Jack Henry, a leading FinTech solution provider in the USA.
- Designed and developed an enhanced & centralized Transactional Outbox pattern to address message loss issues from the queues, and implemented retention background workers to purge outbox tables according to defined policies and retry logic for failed messages and payments using .NET Core background workers.
- Conducted various testing methodologies, including unit, integration, and performance testing, and resolved production bugs.

Technologies & Design Patterns:



Trainee Software Engineer

Mitra Innovation (Pvt) Ltd • 📧 Service Letter • 📈 Tasks

February 2022 – August 2022

Moratuwa, Sri Lanka

Triton by Dygisec - Cloud Security Domain (4 Months)

- Worked as a Golang backend developer, developing APIs, building ETL pipelines using AWS Lambda to PostgreSQL RDS, and creating API endpoints for compliance dashboard service.
- Documented all REST API endpoints using Swagger UI across all services in the project and researched and built OpenID Connect & OAuth2.0 plugin for Kong Gateway.
- Collaborated on filling compliance data into Google Sheets with 11 tables, investigated Triton Confluence pages, and worked with compliance repositories: AWS CIS v1.2.0, AWS Best Practice FW, and PCI DSS 3.2.1.
- Built a Golang CSV file reader program to automate manual data.go file creation from policy compliance Excel sheets.
- Modified Entity Relationship Diagram (ERD) for Compliance and rules repository according to principal architect's feedback, and modified data seeder after database structure changes, verifying data seeding using K9s logs and DBeaver.
- Created Google Sheet documenting 250+ AWS managed config rules, designed and implemented ETL pipeline to read files from S3 bucket and load into AWS RDS PostgreSQL database, and automated ETL deployment process using AWS CloudFormation service with YAML configuration.

Technologies & Design Patterns:

Microservices Go Kong Gateway Helm Swagger Kubernetes Docker GORM
 AWS Agile Development JIRA Slack

ATS - HR & Recruitment Domain (2 Months)

- Created relational database and designed ER diagram for ATS by observing entities through PeopleHR sandbox environment, and developed scheduler to sync PeopleHR data with the proposed ATS application.
- Designed wireframes for ATS using Figma UX/UI design tool.
- Collaborated with all developers on applicant tracking system project tasks.
- Designed project timeline and Gantt chart using Jira project management tools.

Technologies:

Lucidchart Figma Angular PeopleHR APIs

PROJECTS AND RESEARCH

RevitDataExtractor

2025

Freelance Project (Hong Kong) •  GitHub

- Developed an Autodesk Revit 2024 add-in (MVP) using C#/.NET to automate building sustainability data extraction for BEAM Plus certification with a WPF UI and core extensible services.

Technologies:

C# .NET Framework 4.8 WPF MVVM Google Maps API CSV Processing
 Authentication Auto-save Real-time Sensor Validation

Property Maintenance Management System (PMMS)

2024

Full Stack Web Application •  GitHub

- Developed a comprehensive property maintenance management system with role-based access control, RESTful API, and real-time status tracking for maintenance requests.

Technologies:

Angular .NET Core C# Clean Architecture RESTful API Docker Swagger
Role-based Access Control Image Upload Search & Filter

WLAN Edge Computers

2023

Group Project • GitHub

- Edge-computing-based system integrating surveillance video processing with smart energy metering.

Technologies:

Python Flask Arduino Machine Learning Deep Learning PostgreSQL
Raspberry Pi Laravel

School Ease

2023

Group Project • GitHub

- Microservice-based school management backend system.

Technologies:

Spring Boot Eureka Zipkin Docker Kubernetes PostgreSQL JWT Authentication

Smart Meter for Home Water Management

2021

Group Project • GitHub

- IoT-based real-time water usage monitoring system with web and desktop applications.

Technologies:

Arduino MySQL HTML CSS JavaScript C# Bunifu

PERSONAL INFORMATION

Languages: Sinhala (Native proficiency), English (Professional Working proficiency)

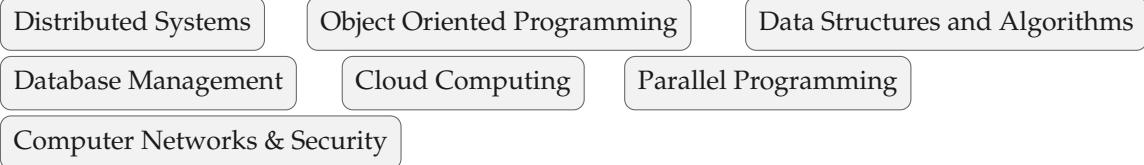
LANGUAGES & FRAMEWORKS

Java C C++ Python SQL MySQL C# PHP JavaScript HTML CSS
Flask .NET Core Node.js Laravel Spring Boot Angular React Go

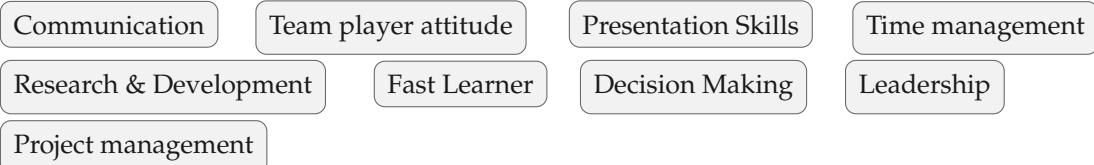
TOOLS & TECHNOLOGIES

Figma Docker Kubernetes Azure DevOps Azure Boards Git Jira Confluence
Azure Trello PostgreSQL MongoDB Firebase Redis Kafka MinIO Supabase
JMeter RabbitMQ Visual Studio IntelliJ NetBeans Atom Dev-C++ CodeBlocks
Android Studio DBeaver SSMS AWS Google Cloud Platform Microsoft Azure
MATLAB JUnit Selenium Postman Mockito xUnit NUnit Plant UML
Lucid Chart Visio Prometheus Grafana Datadog

CONCEPTS



SOFT SKILLS



ACHIEVEMENTS & CERTIFICATIONS

SLIOT 2022 Finalist – Project Eleccare Competition Finalist • GitHub Repository	2022
Introduction to Amazon Web Services Coursera • View Certificate	2021
Google Analytics for Beginners Google Analytics Academy • View Certificate	2021
Circuito'21 – PCB Designing Workshop/Certification • View Certificate	2021
Creating Multi-Task Models with Keras Coursera • View Certificate	2021
IDM E-Kids & Teens Level 8 Certification • View Certificate	2012
Schools Educational Software Provincial Competition Competition • View Certificate	2010
IDM E-Kids & Teens Level 7 Certification • View Certificate	2010
IDM E-Kids & Teens Level 6 Certification • View Certificate	2009

REFEREES

Krishnamenan Rasenthiran
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 krishnamenan@huex.com

Ranushka Pasindu
 Senior Software Engineer
 +94 711523365
 rdharmaranga@gmail.com

DECLARATION

I hereby declare that the information provided in this resume is genuine and truthful to the best of my knowledge and belief.

Date: 2026-02-02

Signature: pasindu uduwela