

# BAVINDU SHAN

Intern Software Engineer

+94767743923    bavindushan65@gmail.com    Minuwangoda, Sri Lanka

## EXPERIENCE

Intern Software Engineer

Back-end Developer

April 2025 – June 2025    Remote

- ZephyraTech (Startup)

Back-end Developer

Greens Customer Mobile Application

May 2025    ZephyraTech

- Engineered REST APIs using Express.js, JWT, and TypeORM, with auto-generated Swagger reports
- Implemented user authentication functionalities
- Built plant listing features
- Managed cart functionalities
- Enhanced the system with real-time plant monitoring capabilities

Back-end Developer & Database Designer

Quick Eats Food Delivery System

June 2025    ZephyraTech

- Constructed RESTful APIs using Node.js (Express.js), Prisma, MySQL, and JWT
- Enabled features like user authentication, order management, real-time tracking, menu handling, rider coordination, and feedback systems
- Structured the system for high scalability, performance, and secure operations across the web and mobile platforms

## PROJECTS

Full-Stack Developer & Team Lead

Task Manager

Present    Link

- Using Layered Architecture, developing a Task Manager web application with Spring Boot, Angular, and JWT for role-based authentication
- Admins can CRUD tasks, assign tasks to staff, and track task statuses (ongoing, completed)
- Staff can view assigned tasks, update task statuses, download files, and use an integrated chat feature for communication
- The system is designed to support up to 100+ users, enhancing team collaboration and task management efficiency

Full-Stack Developer & Team Lead

Online Exam Platform

Present    Link

- Leading a group project to develop a scalable web-based platform using Microservices architecture, Spring Boot, Angular, and MySQL
- Currently in the second sprint, serving as both the Full-Stack Developer and Team Lead, guiding development and team coordination
- Project follows Layered Architecture and aims to support 500+ users
- Features include automated grading, reducing manual evaluation efforts by up to 60%

Full-Stack Developer

MOS Burgers Web Based POS System

Mar 2025    Link

- Architected a REST API-based ordering system using Java, Spring Boot, Hibernate, JPA, JSYPT, and Jasper Reports
- Automated key processes like order tracking and reporting, reducing processing errors by 40% and manual effort by 50%

Software Engineer

Hospital Management Standalone System

Mar 2025    Link

- Developed a secure JavaFX-based desktop application connected with MySQL to manage over 200 daily patient records
- Embedded data encryption for sensitive information, resulting in a 25% reduction in administrative workload through efficient record handling and automated processes

## SUMMARY

I'm Bavindu Shan, a passionate and results-driven Software Engineering undergraduate with hands-on experience in backend development, API design, and full-stack systems. I specialize in Node.js, Express.js, C#, MySQL, Spring Boot, and Angular, with a strong focus on building scalable, secure, and high-performance applications. I thrive on creating innovative solutions and enjoy collaborating on open-source projects and cutting-edge software ideas. Currently, I am focused on enhancing my skills in software engineering practices and exploring new technologies such as ASP.NET, AWS, and Artificial Intelligence.

## SKILLS

### Languages

Java	JavaScript	C#	Python	PHP
CSS3	HTML5	XML		

### Frameworks & Libraries

Spring Boot	Angular	Node.js
Express.js	JavaFX	Jasper Reports
Hibernate	Google Guice	
Java Simplified Encryption (JASYPT)	OpenCV	
Bootstrap	Tailwind CSS	Lombok
Model Mapper	Prisma	TypeOrm

### Databases

MySQL	SQL Server	Firebase
-------	------------	----------

### Cloud Computing

Microsoft Azure

### Networking

LAN/WLAN, VLAN configuration

### Tools & Platforms

Git	GitHub	Visual Studio	VS Code
IntelliJ		Jaspersoft Studio	Postman
Google AI Studio	Power BI	Swagger UI	

### Learning

AWS	React	AI	Flutter	Dart
.NET	Linux	Docker	MongoDB	

## EDUCATION

BEng (Hons) in Software Engineering (TOP-UP)

London Metropolitan University

Jan 2025 – Present    UK

Dip. in ICET Certified Developer

Institute of Computer Engineering Technology (ICET)

Sep 2024 – Present    Panadura    (gpa: 3.85)

BTEC HND in Computing (Software Engineering)

ESOFT Metro Campus

Oct 2022 – Sep 2024    Gampaha    (grade: Distinction)

## PROJECTS

### Software Engineer

#### Bus Seat Reservation System

📅 Mar 2024    🔗 [Link](#)

- Created a Java-based reservation system that utilized advanced queue management and sorting algorithms to streamline booking operations
- Optimized the order of processing and minimized wait times, improving overall reservation efficiency by 50%
- Enhanced user experience and reduced service delays

### Software Developer

#### Sampath Food City System

📅 Jan 2024    🔗 [Link](#)

- Built a Python-based inventory management system adhering to SOLID principles, ensuring clean and maintainable code
- The system features automated stock tracking, which helped reduce stock discrepancies by 35%, improving overall inventory accuracy and operational efficiency

### Software Engineer

#### Grifindo Travels System

📅 Feb 2023    🔗 [Link](#)

- Constructed a C# application coupled with MySQL to streamline vehicle rental charge calculations, resulting in improved invoice accuracy
- The system also introduced self-drive rental options, enhancing overall user satisfaction and providing greater flexibility for customers

### Database Manager & Software Engineer

#### Quiet Attic Films Database Design

📅 Jan 2023    🔗 [Link](#)

- Structured a database using C# and MySQL to efficiently organize client, asset, and workflow data
- Significantly improved operational efficiency
- Fostered better collaboration within the company by providing easy access to critical information

### AI Developer

#### AI-Powered Face Recognition Attendance System

📅 Mar 2025    🔗 [Link](#)

- Using Python, OpenCV, and Firebase to enable real-time tracking and updates
- The system automates the entire process, aiming for over 95% accuracy and reducing manual attendance tasks by 80%
- Significantly improving efficiency and reliability

### AI Developer

#### AI Doctor 2.0 – Multimodal Medical Chatbot

📅 Mar 2025    🔗 [Link](#)

- Assembled a multimodal AI system using Python, Gradio, and SQLite to simulate a virtual medical assistant
- Incorporated Whisper for speech recognition, LLaMA 4 Vision for image-based diagnosis, and ElevenLabs & gTTS for voice output
- Enabled real-time doctor-patient interaction with persistent storage, enhancing accessibility and medical response quality

## CERTIFICATION

[Oracle Java Explorer Badge](#)

[Oracle MySql Explorer Badge](#)

[HP LIFE Agile Project Management](#)

[Microsoft Azure Fundamentals](#)

[Fundamentals of Generative AI Badge](#)

[Introduction to GitHub Copilot Badge](#)

[Postman API Fundamentals](#)

## EXTRA-CURRICULAR ACTIVITIES

ESA(Esoft Student Association) Member

[Esoft Metro Campus](#)

Former Prefect & Sport Caption

[Mahanama National School](#)

## REFERENCES

Dulashi Athauda, Visiting Lecturer, IT

[Esoft Metro Campus](#)

dula.athauda@gmail.com

+94 71 595 8733

Niroth Samarawickrama, Founder

[Institute of Computer Engineering Technology](#)

niroth73@gmail.com

+94 71 764 0600

## FIND ME ONLINE

🔗 [Portfolio](#)

<https://bavindushan.github.io/My-Portfolio-2/>

🔗 [GitHub](#)

<https://github.com/bavindushan>

🔗 [LinkedIn](#)

<http://www.linkedin.com/in/bavindu-shan>