

Binath Perera

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Professional Experience

Intern Software Engineer | Blue Lotus 360 (Pvt) Ltd — Colombo 04
Nov 2022 - May 2023

- Successfully developed and integrated a custom AI RAG chatbot into the ERP system.
- Tested Power BI integration to the BlueLotus360 ERP.
- Worked on MSSQL database optimization and achieved over 3x speed on certain queries.
- Developed ERP sales dashboards, both front end and backend, for multiple clients of the BlueLotus360 Cloud ERP System. DotNet and MSSQL stack.
- Delivered an RnD ETL pipeline on Azure Synapse to process enterprise-scale data for Business Intelligence.
- Delivered an RnD ML model for Market Basket Analysis.

Achievements in Tech Leadership & Teamwork

AWS Student Builder Group Leader - AWS Student Builder Group UOK | Amazon Web Services, USA

May 2025 - May 2026

- Established the first AWS Student Builder Group in Sri Lanka adding Sri Lanka to the AWS global map of 500+ groups.
- Organized and led the first ever Student Community Day in Sri Lanka, a full day cloud tech educational conference event.
- Secured sponsorships by Amazon Web Services USA and WSO2 with partnerships from organizations like SLASSCOM.
- Event and marketing were highly successful with a turnout of 14 industry speakers including keynote speaker from AWS India and 200+ students.
- Delivered technical sessions to over 600 students across 5 events.
- Received diamond leader status : The highest level awarded to AWS Builder Group Leaders.

Key Projects

Multi-Tenant SaaS Agentic Inventory Management System

2026

- Supports natural language search queries for inventory analysis and tenant based customizations.
- Frameworks used - React, Spring Boot, Spring AI, MongoDB.
- Tools used - VS Code, AWS, Git, GitHub actions, Open AI.
- Design patterns - Singleton, DAO factory, and clean architecture prin-

Education

PGD in IT (Ofqual Level 6)

British Computer Society, UK

BSc(Hons) Electronics & Computer Science

Specialization in Computer Science

University of Kelaniya, Sri Lanka

2023-2027

- Dean's List

Lyceum International School Panadura

2006-2021

- GCE A/L: Physics - A, Combined Maths - B, Chemistry - B (*2021*)
- GCE O/L: 7A, 2B (*2018*)
- Senior Prefect (*2020*)

Professional Certifications

Oracle Certified Associate, Java SE 8 Developer

Oracle, USA

AWS Student Builder Group Leader

Amazon Web Services, USA

Professional Graduate Diploma in IT (Ofqual Level 6)

British Computer Society, UK

Diploma in IT (Ofqual Level 5)

British Computer Society, UK

Certificate in IT (Ofqual Level 4)

British Computer Society, UK

Professional Membership

Member of the British Computer Society (MBCS)

Technical Skills

Languages:

C++, Java(Spring Boot), Python, CSS
JavaScript(React.js, Node.js), HTML.

ciples used.

- Hosted on AWS

Bank Customer Churn Prediction System

2026

- Used a 10,000 record dataset with 14 features to train and tune a LightGBM ML model.
- Flask based API was developed to deploy the model on AWS Elastic Beanstalk with SSL implemented using ACM and an ELB.
- AWS Aurora DB PostgreSQL was used for data storage.
- AWS Amplify was used for front-end hosting.
- Frameworks - Flask, ReactJS.
- Tools used - VS Code, AWS, Git.

Cloud IoT Presentation Evaluation Tool

2025

- AWS hosted NodeJS backend with a ReactJS web portal. Designed and developed an ESP32 based timing clock that connects to the cloud API. Presentation Microphone app captures voice. Captured voice converted to text at the backend using AssemblyAI and Open AI API was used for presentation evaluation. Real time data streaming to the timing clock achieved through server sent events.
- Frameworks - React.js, Node.js, Arduino.
- Tools used - VS Code, ESP32, AWS, Git, GitHub actions, Assembly-AI, Open-AI.

World Bank Data Collection Project - Sri Lankan Farmer Data

2026

- Frameworks used - React, Spring Boot, PostgreSQL.
- Tools used - VS Code, AWS, Git, GitHub actions.

ESP32 with Arduino Cloud for Home Automation

2026

- Google Home for voice commands.
- Compared AWS IoT Core with Arduino Cloud.
- Tested Over the Air(OTA) updates for ESP32.

IoT:

MQTT, UART/I2C/SPI, ESP32, tinyML, Adversarial Defense.

Cloud:

AWS, Azure

Tools/Platforms:

VS Code, Git, Docker, MATLAB, MSSQL, MongoDB.

Course Certificates

Comprehensive Master Java Developer

Institute of Software Engineering *2017*

Industrial Automation Workshop

University of Peradeniya *2024*

- Engaged in practical sessions on PLC programming and SCADA systems
- IoT in Industry 4.0, and how inter-connected systems drive smarter, more efficient manufacturing processes.

Public Speaking Course

Faizal Bongso Speech and Effective Communication Institute *2026*

- Successfully completed a course in Television/Radio/News Reading/Presenting and Effective Communication

Language Proficiency

- English - Full Professional Proficiency
- Sinhala - Native Proficiency
- German - Elementary Proficiency