



# Sheshehang Limbu

## Computer and Software Engineer

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- Currently in Thailand
- Hong Kong
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## Competence Areas

- Internet of Things(IOT)
- IOT System Designing
- Artificial Intelligence (AI)
- Web and App Development
- Data Mining and Analysis
- Machine Learning

## Skills

### Programming:

- Python
- Dart
- Java
- C++
- HTML, CSS, JS

### Tools/Softwares:

- Micro-controller
- (Arduino, ESP-32, Raspberry-Pi, PLC)
- Internet of Things(IOT)
- ( IOT Security, IOT Designing, IOT Network, IOT System)
- Data Visualization
- (matplotlib, seaborn, Tableau, Orange...)
- App Development
- (e.g.Flutter, Firebase, java, ...)
- Machine Learning
- (e.g. scikit-learn, XGBoost, LightGBM, LSTM,...)

## Work Experiences

Apr 2025 -  
Ongoing

### Flutter Developer

State Trading Organization Plc, Maldives

- Designed and developed Flutter applications aligned with business requirements and product designs.
- Implemented new features and maintained existing projects with best practices.
- Collaborated with backend engineers and UI/UX designers for seamless integration.
- Applied security measures to ensure data protection and product readiness.
- Maintained technical documentation and regularly communicated progress with the team.

Flutter

Mobile Development

UI/UX

Security

Team Collaboration

Mar 2024 -  
Mar 2025

### Mobile App Developer

Raytail, Thailand

- Developed robust backend infrastructure with optimized server sync, offline transitions, and event handling.
- Implemented OTP authentication for seamless setup and real-time updates with SignalR.
- Refactored 5,000+ lines to BLoC for modularity and scalability.
- Enhanced UI with navigation bar, recall/hold features, settings page, and custom sidebar.
- Designed a distributed cron-based task scheduler with sharding and isolate concurrency.
- Ensured secure authentication with JWT, OAuth, and REST API integration.
- Boosted performance with Dart isolates for rapid reconnections and real-time updates.

Flutter

POS System

SignalR

BLoC

UI Development

OpenAPI

Database Maintenance

Azure DevOps

May 2023 -  
Oct 2023

### AI/ML Programmer Trainee

TGS Enterprise Network Limited, Thailand

- Developed three key projects: Thai Speech Emotion Recognition, Thai Speech-to-Text, and Text-to-Speech.
- Trained models using LSTM, CNN, and over 17,600 Thai audio files, deployed via Flask and Docker.
- Balanced programming, research, and administrative tasks efficiently.

Python

Flask

Docker

Machine Learning

FFmpeg

API

Apr 2023 -  
Sep 2023

### IOT Engineer Intern

PCS Security and Facility Services Limited, Thailand

- Assisted in surveying, installing IoT devices at multiple sites.
- Managed energy projects and provided troubleshooting for various systems.
- Supported site managers with Head Mounted Tablets and trained technicians on usage.

IoT Devices

Energy Monitoring

Networking

## Education

2018 – 2023

### B.Sc. in Computer Engineering

VME, Assumption Univ., Thailand

Department: Computer Engineering

Ongoing

### Master's in IoT System Engineering

Asian Institute of Technology, Thailand

Field of Study: IoT System Engineering

#### Database/Server:

- MySQL
- SQL Server


#### Development Boards:

- Raspberry Pie
- Arduino


## Languages


- English
- Hindi
- Nepali
- Thai
- Chinese(Mandarin)


## References


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 Profile Link


 PCS Security and Facility Services Limited


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Mr. Woradol Khonchob


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 Profile Link

 TGS Enterprise Network Limited

 Thailand (BKK).

## Certificates

- 2022 **Google UX Design** Coursera  
**Designed By:** Google
- 2022 **Blockchain Specialization** Coursera  
**Designed By:** University of Buffalo
- 2024 **Software Engineering** Coursera  
**Designed By:** The Hong Kong University of Science and Technology

## Projects

- 2022 **Smart House and Home Security Concept using IOT**  
**Senior Project:** B.Sc in Computer Engineering
  - Developed a Smart House project using IoT technologies, integrating various programs and technologies for a comprehensive solution.
  - Utilized Firebase for Realtime Database management, Flutter for the mobile app, Arduino as the microcontroller, NodeRed as the dashboard, and Google ML Kit for additional capabilities.
  - Developed a garage control system that can be operated through both a remote control and a mobile app. The system also alerts the user in case of obstructions between the doors.
  - Created a mobile app with QR code scanning features, allowing users to easily add IoT devices by scanning the QR code. The app also provides the option to delete devices.

#### Technologies Used:

- Firebase: Real-time Database management system.
- Flutter: Mobile app development framework.
- Arduino: Microcontroller platform.
- NodeRed: Dashboard for IoT control and visualization
- Google ML Kit: Machine Learning capabilities

#### Project Video

 Video Link

#### Project Video

 Video Link

- 2023 **Energy Consumption for Thailand and ASEAN Countries**  
**Course Project:** Data Mining by Dr. IRFAN AHMAD

- Data Visualization for different aspect of Energy Consumption Such as CO2 Emission, Access to Energy, GDP Growth etc.
- Data Cleaning for Null values and Normalization of Data in-order to train the model.
- Trained the model using Linear Regression and got the Accuracy of 86% and Predicted the CO2 Consumption for year 2020 to 2030.

**Data Used:** Global Data on Sustainable Energy (2000-2020)

 GitHub Link

## Freelance Project

- 2020 **GYM Website** TFC Muaythai Gym

- Developed website for Local Gym using HTML, CSS and JS.
- Deployed the website on GoDaddy.com
- Responsive website with Location feature.

HTML

CSS

User Experience (UX)

JS

**Website Link:** <http://tfcmuaythaigym.com/>

 Website Link