

EDWIN MUSHABATI
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<https://github.com/mushabatiedwin>

Projects

Integrated Railway Passenger Facilitation Application:

April 2025

- Focused on improving passenger experience using ML-based clustering and recommendation systems.
- Planned deployment using a REST API (FastAPI/Flask) with a front-end webpage or Streamlit app.
- Made Inclusive station clustering by distance and travel time, and features like route recommendation and delay prediction using weather data.
- Tech: Python
- Github Repository Link: [mushabatiedwin/User-Friendly-System-Call-Interface-for-Enhanced-Security](https://github.com/mushabatiedwin/User-Friendly-System-Call-Interface-for-Enhanced-Security)

Intelligent CPU Scheduler Simulator:

April 2025

- Simulates FCFS, SJF, Round Robin, and Priority Scheduling.
- Supports real-time visualizations and calculates metrics like waiting time and turnaround time.
- Tech: Python
- Github Repository Link: [mushabatiedwin/Integrated-Railway-Passenger-Facilitation-Application](https://github.com/mushabatiedwin/Integrated-Railway-Passenger-Facilitation-Application)

Online Marketing Platform:

March 2025

- Provides tools for creating and managing marketing campaigns.
- Supports real-time visualizations and calculates metrics like waiting time and turnaround time.
- Allows users to target specific audiences or niches.
- Includes AI-based features such as automatic caption writing, keyword suggestions, or content personalization.
- Tech: Python, Flutter & Dart
- Github Repository Link: [mushabatiedwin/Online-Marketing-Thing](https://github.com/mushabatiedwin/Online-Marketing-Thing)

Certificates

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| • "Certificate Course on Mastering Java for App Development" — Lovely Professional University | July 2025 |
| • "Packet Switching Networks and Algorithms" — Coursera | November 2024 |
| • "Computer Programming with C++" — NEO-Colab | January 2024 |
| • "The Bits and Bytes of Computer Networking" — Google (Coursera). | September 2024 |
| • "Introduction to Hardware and Operating Systems" — IBM (Coursera). | September 2024 |
| • "Peer-to-Peer Protocols and Local Area Networks" — University of Colorado (Coursera). | October 2024 |

Technical Skills

Languages: C, C++, Java, JavaScript, Python, Dart

Technologies/Frameworks: React JS, Node JS, Flask / FastAPI, Streamlit, Scikit-learn, Git, GitHub

Skills: Problem-Solving, Scripting in Python and JavaScript, REST API Development, Machine Learning, Data Structures and Algorithms, Backend Systems

Education

Lovely Professional University Punjab

2020 – 2024

Computer Science and Engineering — CGPA: XXX

Jalandhar, Punjab

Canisius Secondary School

2020 – 2012

12th with Science — Percentage: 95

Monze, Zambia

Canisius Secondary School

2018 – 2019

10th with Science — Percentage: 90

Monze, Zambia