


Kiran De Roy

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Education

KU Leuven: Group T MSc in Electronics-ICT: Software Systems <ul style="list-style-type: none">• Coursework: C++ , Machine Learning, Cybersecurity, Distributed Systems	Sept 2024, June 2025
KU Leuven: Group T BSc in Electronics-ICT: Smart Electronics and Software <ul style="list-style-type: none">• Coursework: Operating Systems, Object-Oriented Programming, Web Development	Sept 2020, Feb 2025
KAMSA Aarschot Science and Mathematics	Sept 2014, June 2020

Research

Master's Thesis – Real-Time Pelvic Rotation Detection Using Machine Learning Sept 2024, June 2025
Developed machine learning models for real-time pelvic rotation detection to address lower back pain, achieving 95% weighted F1-score using MS-TCN++ temporal model on IMU sensor data.
Technologies: Python, Scikit-learn, Pandas, NumPy, Tensorflow, PyTorch, CUDA

Projects

Automatic Chessboard with Lichess Integration <ul style="list-style-type: none">• Built an automatic chessboard powered by ESP32-S3 using CoreXY mechanism and electromagnets• Integrated with Lichess API via React web app• Tools: ESP-IDF (C), React, Stepper Motor Drivers, CoreXY Kinematics• Awarded Best Student Project 2024	 Source Code
Student Freelancing SaaS Application: UniGigs <ul style="list-style-type: none">• SaaS web app for students to offer and find freelance gigs• Authentication, file storage via Firebase, payments via Stripe• Tools: React, TypeScript, Firebase• Awarded Most Technically Advanced SaaS Application 2025	 Source Code
Distributed Food Ordering System <ul style="list-style-type: none">• Microservices-based food ordering platform with 2PC transactions• Designed REST APIs, monitoring services, deployed to Azure• Tools: Java, Spring Boot, REST APIs, Maven, Azure, GitHub Actions	 Source Code

Check out my **website** for videos, screenshots and a comprehensive list of other completed projects.

Skills

Languages: Java, C++ , C, PHP, SQL, Python
Technologies: Symfony, Git, React, Firebase, QTCreator, Tensorflow, Ubuntu
Dutch (native), English (fluent)

Other Experience

Student Job, Delhaize <ul style="list-style-type: none">• Operated the cash register• Restocked shelves	July 2019, July 2021
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