DORINA HABRAVAN

DETAILS

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github.com/dorinahabravan

SKILLS

- Java Standard Edition
- Java Enterprise Edition
- HTML & CSS, JavaScript
- Python
- SQL
- MySQL Server
- Maven, GitHub
- Spring Framework
- Visual Studio Code, NetBeans

LANGUAGES

- English
- Romanian
- Russian

PROFILE

Motivated and versatile Computer Science student with hands-on experience building applications, AI-powered tools, and desktop software. Passionate about applying technology for real-world impact, with a growing portfolio of academic projects in Java, Python, PHP, and JavaScript. Proficient in object-oriented programming, web development, and data analysis using both SQL and Python. Recently completed an AI research project using NASA satellite data and machine learning models to monitor climate anomalies.

Bringing strong teamwork, problem-solving skills, and a positive attitude. Eager to contribute to a graduate software developer role while continuously learning new technologies such as React and cloud deployment.

EDUCATION

Foundation Degree in Computer Science Level 5, Elizabeth School of London, Leicester
2024 — 2025

Foundation Degree in Computer Science Level 4, Elizabeth School of London, Leeds
2023 — 2024

English Course, METHODUS - School, Chisinau, Moldova
2016 — 2016

Psychology, Pedagogical University, Chisinau, Moldova
2012 — 2016

COURSES

Java Starter, IUCOSOFT SRL

PROJECTS

Smart Study Assistant
(In Progress)

GitHub: github.com/dorinahabravan/Smart-Study-Assistant-App
Technologies: React, Material UI, Python, KeyBERT (AI-powered NLP), MySQL, Git, Netlify (planned), Render (planned)

Initiated and currently developing a full-stack educational web application that leverages Artificial Intelligence (AI) to provide users with personalised study plans and learning resources. The project integrates Natural Language Processing (NLP) using the KeyBERT library to extract key concepts from user input and automatically generate dynamic, topic-based learning paths.

Stamp Management System
(Academic Project)

GitHub: github.com/dorinahabravan/stamp_management_system
Technologies: Java, Swing (GUI), CSV File Storage, OOP

Developed a Java Swing desktop application with full CRUD (Create, Read, Update, Delete) functionality to manage stamp collections. The app allows users to register, log in, and maintain personalised stamp wishlists and ownership lists using a graphical interface and CSV-based data storage.

AI-Based Climate Change Monitoring using Remote Sensing
(Academic Research Project)

GitHub: github.com/dorinahabravan/climate-ai-remote-sensing
Paper (PDF): Artificial Intelligence Remote Sensing and Climate Change Monitoring
Tools: Python, TensorFlow, MODIS, GLDAS, Landsat, Google Colab

Developed during my academic studies, this research project combines Artificial Intelligence (AI) and satellite-based remote sensing to monitor and predict climate anomalies across vulnerable regions. The project uses NASA Earth observation datasets, including MODIS (Moderate Resolution Imaging Spectroradiometer), GLDAS (Global Land Data Assimilation System), and Landsat, to analyse environmental variables such as vegetation (NDVI), land surface temperature (LST), and water storage. Predictive modelling is performed using LSTM (Long Short-Term Memory) neural networks and XGBoost classifiers.

◇ Booking Management System
(Academic Project)

GitHub: github.com/dorinahabravan/bookingmanagementsystem
Technologies: Java, Java Swing (GUI), Object-Oriented Programming, File Handling

Designed and implemented a desktop booking management system using Java Swing. Built as part of academic coursework, the application allows users to make and manage bookings through a graphical interface. Data is persisted using local file storage, and the system includes validation, listing, and basic modification of bookings.

◇ Seabrook Community Web Application
(Academic Project)

GitHub: github.com/dorinahabravan/seabrookcommunity
Technologies: PHP, HTML, CSS, MySQL, XAMPP
Designed and developed a dynamic web portal for the fictional Seabrook community using PHP and MySQL. The application was built during academic coursework to simulate a real-world municipal website, featuring dynamic content management, navigation between community services, and basic backend logic for data handling.