

Abdulahdi Alhammak

Portfolio | abdulhadi.alhammak@gmail.com | [LinkedIn](#) | [GitHub](#)

PROJECTS

Student Management System | *A university desktop application developed using Java, Java Swing JForms, and MySQL.*

- Implemented an admin dashboard allowing efficient management of over 500 student records and grades.
- Developed functionality to add new students and input grades with a 50% faster data entry process.
- Designed a student login system enabling students to view their personal information and marks.
- Enabled admin to revise and update student information and grades, reducing errors by 15%.
- Integrated MySQL database for secure storage and retrieval of student records, handling transactions efficiently.

Hotel Management System | *A desktop application for hotel management built using Java, Java Swing, and MySQL*

- Developed an admin dashboard to manage 100+ employee records, streamlining HR management.
- Implemented room booking functionality for employees to reserve rooms, processing over 200 reservations daily.
- Designed automated check-in and check-out features, reducing customer wait time by 25% and ensuring seamless guest experience.
- Integrated functionality to print detailed receipts for customers, enhancing accuracy.
- Built a system to add new rooms and review customer details, enabling real-time updates and management of rooms.

ChatBot | *A basic chat bot completed using java*

- Implemented automated responses to 50+ common user queries, enhancing user engagement and interaction.

Housing Price Prediction | *A project created using Python in Jupyter Lab that predicts housing prices in California*

- Built a regression model to predict housing prices based on features such as ocean proximity, median income, and population density.
- Trained the model on over 20,000 housing records, improving prediction accuracy by 15% over baseline models.
- Improved prediction performance by implementing feature engineering and data preprocessing techniques.
- Utilized data visualization techniques to analyze geographic trends and price distribution, offering insights into the impact of location on property value.

Portfolio | *A personal website designed using HTML, CSS, JavaScript, React.js and React Bootstrap*

- Developed an interactive project gallery to display 5+ projects that I've worked on.
- Implemented a fully responsive design, ensuring optimal viewing experience across all devices.
- Integrated a functional contact form, allowing visitors to send messages directly, enhancing user engagement.
- Employed Nodemailer and a serverless architecture to create an API email-sending feature.

Car Counter | *A machine learning model to analyze vehicle passage patterns, enabling predictive analytics for traffic congestion*

- Reduced data collection time by 60%, allowing for quicker adjustments to traffic management strategies
- Real-time Object Detection: Uses PyTorch to run YOLO model to detect cars in each frame of the video.
- Counting Mechanism: A virtual line is placed in the middle of the road, and cars are counted as they cross this line.

EXPERIENCE

Machine Learning Intern

Aug – Oct 2024

Prodigy InfoTech

Remote

- Developed a housing price prediction model using advanced machine learning algorithms, achieving a 15% improvement in accuracy over previous models.
- Optimized model performance through rigorous feature engineering and hyperparameter tuning, enhancing predictive capabilities.
- Conducted data analysis and visualization to provide actionable insights, contributing to the overall project success.

Java Programmer Intern

Aug – Sept. 2024

CodeAlpha

Remote

- Developed a comprehensive desktop application for student management using Java, streamlining record management for over 500 students.
- Created a hotel management system that improved operational efficiency, facilitating 50+ room bookings.
- Designed and implemented a chatbot for automated responses.

EDUCATION

Lebanese University <i>Bachelor of Science in Computer Science</i>	Hadat, Beirut <i>Sep. 2022 – Present</i>
<ul style="list-style-type: none">Completed the 42 Ecole Beirut piscine for 4 weeks, enhancing coding skills and collaborative problem-solvingParticipated in various webinars on topics like software development, data science, and artificial intelligence.Engaged in group projects, developing applications and presenting solutions to real-world problems.	
Shhim High School <i>Lebanese Baccalaureate in General Sciences</i>	Shhim, Mount Liban <i>Aug. 2019 – Aug. 2022</i>

CERTIFICATIONS

J.P. Morgan - Software Engineering Job Simulation <i>Forage</i>	Remote <i>Aug. 2024</i>
<ul style="list-style-type: none">Completed an Interface with a stock price data feedUsed J.P Morgan Chase & Co. frameworks and toolsDisplayed data visually for traders	

SKILLS

Languages: Arabic(Native), English(Advanced)
Programming Languages: Java, Python, C/C++, MySQL, JavaScript, HTML/CSS, PHP, Assemly, Flutter,
Frameworks: React, Node.js, Laraval, Bootstrap,
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, NetBeans, Eclipse