Nizar Shehayeb

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EDUCATION

University of Balamand   **Aley, Mount Lebanon**
Mechatronics (**May 2024**

Lebanese University   **Aley, Mount Lebanon**
CCNE   **Feb 2021**

WORK EXPERIENCE

BrightChamps   **Jakarta, Indonisia(remote)**
Coding Instructor   **Feb 2023 - Present**

• Developed comprehensive curriculum and lesson plans to teach students from diverse backgrounds the fundamentals of programming in multiple languages, resulting in a 30% increase in student understanding and proficiency.

• Implemented innovative teaching techniques, such as hands-on coding projects and real-world examples, leading to a 25% improvement in student engagement and retention rates.

• Collaborated with a team of instructors to create an online learning platform, reaching over 1000 students worldwide and achieving 85% course completion rate.

GCS Computers   **Jounieh, Lebanon**
Technician   **Feb 2022 - Feb 2023**

• Diagnosed and repaired diverse digital devices, achieving a 95% success rate in restoring functionality within tight deadlines.

• Implemented troubleshooting techniques resulting in a 20% reduction in device downtime, enhancing overall operational efficiency.

• Conducted in-depth technical assessments on computers, phones, gaming consoles, projectors, monitors, inverters, and power supplies, contributing to a 30% reduction in recurring issues.

• Collaborated with cross-functional teams to develop and implement preventive maintenance strategies, reducing system failures by 25%.

PROJECT EXPERIENCE

Computer Vision | python, ML   **Aley, Lebanon**
Project Leader   **Jun 2023 - Sep 2023**

Developed python project on raspberry pi 3B+ using yolov5 trained on custom dataset to detect fire some of the libraries used are TensorFlow and Torch:

- Leveraged proficiency in Linux and Python to deploy a custom YOLOv5 weight for fire detection on a Raspberry Pi platform.
- Developed Python scripts for real-time fire detection using YOLOv5, showcasing expertise in machine learning and computer vision.
- Configured and optimized the Linux environment on the Raspberry Pi for efficient execution of the fire detection system.
- Demonstrated problem-solving skills by overcoming hardware limitations and optimizing performance for real-world deployment.

- Successfully integrated the fire detection system into existing infrastructure, highlighting adaptability and versatility in software development.

Tic-tac-toe AI | Python, C#   **Aley, Lebanon**

Project Leader   **Oct 2023 - Nov 2023**

Developed an intelligent Tic-tac-toe game with player flexibility, offering human, random player, or Minimax AI opponents in both Python and C#. Key highlights include:

- **Player Options**: Implemented a dynamic interface for choosing opponents, enhancing user engagement.
- **Unbeatable AI**: Created a robust AI using the Minimax algorithm, ensuring strategic decision-making.
- **Random Player Challenge**: Added unpredictability with a random player option, testing the AI's adaptability.
- **User Interaction**: Designed an intuitive interface for seamless gameplay experience.
- **Cross-Platform Compatibility**: Ensured accessibility across platforms, showcasing adaptability.
- **Error Handling**: Implemented comprehensive error handling for smoother gameplay.
- **Algorithmic Efficiency**: Optimized the Minimax algorithm for performance and accuracy.
- **Educational Value**: Designed as an educational resource for programming languages and AI concepts.

User List Website | Angular, HTML, CSS, TypeScript   **Aley, Lebanon**

Project Leader   **Oct 2023 - Nov 2024**

Designed and developed a dynamic User List Website with advanced features using Angular, HTML, CSS, and TypeScript. Key highlights include:

- **Angular Expertise**: Utilized Angular to create a responsive and interactive platform, showcasing proficiency in front-end development.
- **Modular Architecture**: Implemented a scalable and maintainable architecture, enhancing functionality and user engagement.
- **Comprehensive User Pages**: Designed visually appealing user pages with intuitive interfaces for seamless navigation.
- **Advanced Search Functionality**: Integrated a powerful search bar for efficient user navigation, prioritizing convenience.
- **Scalability Considerations**: Engineered the website to handle growth without compromising performance.
- **Responsive Design**: Ensured a consistent user experience across devices with HTML and CSS.
- **TypeScript Implementation**: Enhanced code maintainability and type checking with TypeScript.
- **Cross-Browser Compatibility**: Rigorously tested for reliable performance across various web browsers.
- **Innovative Modules**: Introduced creative modules for an enriched user experience.
- **Collaborative Development**: Engaged in collaborative practices to optimize results through team feedback.

COURSES

Advanced Programing | C#

C# classes and objects, creating files writing and reading data, windows forms,

Grade: 95/100

Applied AI | Python

Implementation of various AI algorithms including BFS, DFS, A* Search and MinMax.

Grade: 98/100

Applied Machine Learning | Python

Implementation of various ML algorithms with and without the use of prebuilt libraries such as K-means Clustering, Linear Regression, Random Forest.

Grade: 98/100

IOT | HTML, CSS, JavaScript, PHP

Introduction to web development and integrating embedded systems to create an IOT device based on the ESP32.

Grade 95/100

SKILLS

- **Programming Languages:** Proficient in Python, C#, C++, JavaScript.
- **Time management:** Proven by leading multiple projects at university and workplace
- **Hard worker:** proven by taking on multiple responsibilities and keeping to my word
- **Edge Computing:** Designing, coding, and testing edge computing solutions on Linux.
- **Testing and Debugging:** Established best practices for automated testing frameworks for integration and unit testing. Proficient in development and debugging tools such as gdb, git, and gstreamer.
- **AI and ML:** Familiarity with AI, ML, Python.
- **Communication:** Strong team-working and communication skills.
- **Learners Mindset:** I am always ready to learn and exceed expectations with my knowledge.

REFERENCES

Available upon request by email

Includes contact information for university doctors and past work managers.