CASTRO, Fredderico

Full Stack Dev

22 years old | Jan. 02 2004

Contact

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https://github.com/Fcstro

Education

Batchelor of Scienece in Computer Science
College of Mary Immaculate
2022 - Present Time

Science, Technology, Engineering, and Mathematics (STEM)
College of Mary Immaculate
2020 - 2022

Junior High School
Bunsuran National Highschool
2016 - 2020

Elementary School
Mamerto C. Bernardo Memorial Central School
2010 - 2016

References

Mr. Joseph Bernard Reyes
Computer Science Department Head
(09)92-234-6806
College of Mary Immaculate
School Attentending

About Me

An enthusiastic and detail-oriented Computer Science senior at the College of Mary Immaculate, with completed On-the-Job Training at Elisachem Industries OPC, where I gained hands-on experience in both IT and Marketing functions. Proficient in server-side solutions (Node.js, PHP, MySQL) and familiar with modern front-end technologies, I successfully applied my academic knowledge to real-world projects, strengthening my technical expertise, problem-solving skills, and adaptability in a professional setting. Eager to leverage this experience, I am driven to contribute to innovative projects across diverse IT industries while continuously enhancing my competencies in web development and beyond.

Technical Skills

- **Programming Languages:** Python, C++, JavaScript, SQL, PHP
- **Database Management:** MySQL
- **Web Development:** HTML, CSS
- **Design Tools:** Figma, Gimp, Canva, Adobe Photoshop, Adobe Illustrator
- **Tools & Technologies:** Git, Visual Studio, Visual Studio Code, Microsoft Office, Postman, Docker, Virtual Box
- **Operating Systems:** Windows, Linux

Relevant Projects

- **BMR Maker | Python, Excel, Executable Deployment**
  BMR Maker is a desktop application developed during my OJT at Elisachem Industries OPC to calculate and track Basal Metabolic Rate (BMR). Built with Python and deployed as a standalone .exe, it featured automated computations, an easy-to-use interface, and Excel integration for data storage and reporting. This project enhanced my skills in Python, Excel automation, and software deployment.
- **Happy Ending | PHP, MySQL**
  Happy Ending, an e-commerce platform specializing in coffins and burial urns, using PHP and MySQL to deliver a robust and user-friendly online shopping experience. The system was deployed on a virtual machine with a master-slave MySQL replication setup, optimizing database performance, ensuring high availability, and enabling seamless data synchronization. This architecture effectively handled large volumes of transactions, enhancing both system reliability and overall performance.
- **The Mood | JavaScript, Node.js**
  The Mood, a social media platform inspired by Twitter, utilizing native JavaScript for the frontend and Node.js for the backend. The platform leverages a REST API to facilitate seamless user interactions, enabling users to post "moods," like, comment, repost, and follow other users. This dynamic and interactive design fosters a highly engaging social experience while ensuring efficient backend communication and scalability.
- **Colored Lotto | React, Node.js, WebSocket**
  Colored Lotto, a WebSocket-based lottery system with a React frontend and a Node.js backend, designed for real-time, interactive gameplay. The platform incorporates a load balancer to ensure seamless scalability and handle increasing traffic. WebSockets facilitate instant communication for bet placements and live result updates, while a Master-Slave server architecture synchronizes gameplay across servers. This setup optimizes both performance and reliability, delivering a highly responsive and engaging gaming experience in a dynamic, high-traffic environment.