JOAQUIN VILA

Computer Science and Technology

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Programming Languages

Proficient: Python, Java, C
Intermediate: JavaScript, C#, C++, Elixir
Basic: PHP

Technologies

Git, GitHub, HTML, CSS, phpMyAdmin, MySQL, Apache, XAMPP, Docker, Angular, Node.js, GraphQL, PostgreSQL, Postman, Selenium, Redis, Linux, Unity.

Education

Instituto Tecnológico y de Estudios Superiores de Monterrey
B.S. Computer Science and Technology
Graduating in December 2022

Major Projects

- **Live Covid-19 Web API Map**
  Web page that features a map with the number of active Covid-19 cases across the United States. The data is retrieved from a public API that is updated every 24 hours. (2020)
  https://github.com/JoaquinVila13/covid19-map-api/blob/master/Presentation.pdf

- **Educational Web App to Teach a Countries Culture to Tourists and Immigrants**
  Web app to help tourists and immigrants visiting a new country to better adapt to the local culture and customs. It features a broad array of topics and teaches them with a gamified quiz system. (2020)
  https://github.com/JoaquinVila13/easyCulture/blob/master/Presentation.pdf

- **Virtual Reality Electric Motor Connection Simulator**
  Used for research to test if VR can replace physical training. It features an electric motor in a laboratory and engineering students are though how to properly connect it to test their competitiveness. (2020)
  https://github.com/JoaquinVila13/VR-motor-simulator/blob/master/Presentation.pdf

- **Videogame for Children's Cerebral Palsy Rehabilitation**
  Videogame which promotes active movement in children with cerebral palsy to help in their recovery therapy while having fun. It works with a simple controller that is easy to use for children. (2019)
  https://github.com/JoaquinVila13/videogame-palsy-therapy/blob/main/Presentation.pdf

- **Augmented Reality Advertising for Hackathon Competition**
  Mobile app that works by pointing your device's camera to a normal 2D poster and then having a 3D AR ad pop-up over it on the screen, making a visually attractive effect that really draws attention. (2019)
  https://github.com/JoaquinVila13/AR-add-hackathon/blob/main/Presentation.pdf

- **Participant in Competitive Programming Tournament**
  Solution of logical and mathematical problems trough programming against other contestants

Experience

Education Mentor
Prepanet
Aug 2018 - Aug 2019 (1 year 1 month)
Online IT mentor for an educational program aimed at young people and adults in a situation of social inequality, thus contributing to the reduction of the educational gap.

Certifications

- Introduction to Virtual Reality - Coursera (2020)
- Programming for Everybody (Python) - Coursera (2020)

Languages

- English (Professional working proficiency)
- German (Limited working proficiency)
- Spanish (Native)