

JOAQUIN VILA

COMPUTER SCIENCE AND TECHNOLOGY

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PROGRAMMING LANGUAGES

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

TECHNOLOGIES

Unity (3D, 2D, VR, AR), Vuforia AR, Google VR, WebGL, HTML, CSS, SQL, Git, GitHub, Node, phpMyAdmin, PostgreSQL, Linux, Apache, Angular, Docker, JSON, APIs

EDUCATION

MONTERREY INSTITUTE OF TECHNOLOGY (ITESM) (2017 – present) Graduating in Dec 2022
BSc Computer Science and Technology. Predicted 1st Class.

Notable Modules:

- Software Engineering
- OOP and Data Structures
- Software Quality and Testing
- Project Management
- Video game development

Societies:

- Hackathon Major League Hacking
- Competitive programming club
- Video game development club

Certifications:

Introduction to Virtual Reality - Coursera

MAJOR PROJECTS

AUGMENTED REALITY ADVERTISING APP:

Developed Unity AR app to bring 2D posters to life with 3D pop-out graphics when viewed through a smart device at Hackathon Competition.

github.com/JoaquinVila13/AR-ad-hackathon

VR ELECTRIC MOTOR TRAINING SIMULATOR: Developed Unity VR simulation used to teach students how to connect wires inside a motor, to research replacing physical training with VR.
github.com/JoaquinVila13/VR-motor-simulator

VIDEOGAME FOR PALSY REHABILITATION IN CHILDREN: Developed Unity 2D videogame which promotes active movement in children with cerebral palsy to help in their recovery therapy.
github.com/JoaquinVila13/game-therapy

LIVE COVID-19 WEB MAP: Developed a web page featuring a map with the number of active Covid-19 cases across the United States. Data is updated using APIs.
github.com/JoaquinVila13/covid19-map-api

CULTURAL EDUCATION WEB APP: Developed a web app to help tourists and migrants learn about the local culture and customs of a new country using a gamified quiz system.
github.com/JoaquinVila13/easyCulture

WORK EXPERIENCE

EDUCATION MENTOR Aug 2018 - Aug 2019

PREPANET

Computer Science mentor for an educational program aimed at helping young people with socioeconomic disadvantages, thus contributing to the reduction of the education gap.

LANGUAGES

- English (Full working proficiency)
- Spanish (Native)
- German (Intermediate)

References Available Upon Request - UK Settlement status: Pre-Settled status