

# JOAQUIN VILA

## COMPUTER SCIENCE AND TECHNOLOGY

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### PROGRAMMING LANGUAGES

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

### TECHNOLOGIES

HTML, CSS, SQL, Git, GitHub, phpMyAdmin, MySQL, Linux, Apache, Node.js, Angular, Docker, APIs, Selenium, GeoJSON, Leaflet, Redis, GraphQL, PostgreSQL, Unity, VR, AR

### EDUCATION

**MONTERREY INSTITUTE OF TECHNOLOGY (ITESM)** (2017 – present) Graduating in Dec 2022  
BSc Computer Science and Technology. GPA: 3.5

#### Notable Modules:

- Software engineering
- OOP and Data Structures
- Web development
- Software Quality and Testing
- Project Management

#### Societies:

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

### MAJOR PROJECTS

**AUGMENTED REALITY ADVERTISING APP:** Developed mobile 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](https://github.com/JoaquinVila13/AR-ad-hackathon)

**VR ELECTRIC MOTOR TRAINING SIMULATOR:** Developed 3D VR simulation used to research on replacing physical training with VR, teaching students how to connect wires inside a motor.  
[github.com/JoaquinVila13/VR-motor-simulator](https://github.com/JoaquinVila13/VR-motor-simulator)

**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](https://github.com/JoaquinVila13/covid19-map-api)

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

**VIDEOGAME FOR PALSYPALSY REHABILITATION IN CHILDREN:** Developed 2D videogame which promotes active movement in children with cerebral palsy to help in their recovery therapy.  
[github.com/JoaquinVila13/game-therapy](https://github.com/JoaquinVila13/game-therapy)

### WORK EXPERIENCE

**EDUCATION MENTOR** Aug 2018 - Aug 2019

#### PREPANET

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 Artificial Intelligence - Coursera
- Introduction to Virtual Reality - Coursera
- Programming for Everybody (Python) - Coursera
- Introduction to Networks - Cisco

## LANGUAGES

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