Jorge Escorza

Software Engineer

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Summary

Graduated from UNAM with experience in backend development, algorithms, cloud computing, cybersecurity and 3D environments. Passionate about game development and AI innovations.

Education

National Autonomous University of Mexico (UNAM)

Mexico City

Bachelor's Degree in Computer Science. GPA: 4.0/4.0 (9.7/10.0)

August 2020 - June 2024

Graduating with Distinction

Relevant Coursework: Algorithms & Data Structures, Software Engineering, Video Game Development, Web Development, Computer 3D Animation, Cybersecurity, Machine Learning

Experience

UNAM Film Library Social Service, Video Game Development and 3D Animation

Mexico City

August 2024 - February 2025

- Redesigned UNAM Film Library's upcoming mascot in 3D using **Blender** and integrated it into a **Unity 3D** project (**C# programming**).
- Developed 100% of a third-person video game of the UNAM Film Library's mascot using Unity 3D and Git for version control.
- Produced a five-minute animation of the UNAM Film Library's mascot, including an original instrumental
 using Reaper and VSTis.
- Created 100% of the whole institution in 3D for the video game and animation environment.

Projects

Upcoming Steam Video Game

May 2024 - present

A game developed using Unity 3D, where the player navigates a haunted house as a ghost.

- Implemented all the programming logic and mechanics using C# and Unity's built-in physics.
- Made all the art for the characters and environment using Blender.
- Animated a short film to promote the video game in the future.
- Produced an original instrumental for both animation and video game using Reaper and VSTis.

Encrypted Database

April 2024 - June 2024

A database which encrypts sensitive hospital data using AES-256 encryption algorithm (CTR and GCM modes).

- Configured a Virtual Machine with Debian 12 (Linux) to test the project.
- Created a relational database using the open source MariaDB Server.
- Encrypted this database using Python with the following modules: PyCryptodome, MySQLdb and SecureString.

Al for Sentiment Analysis on Social Media Data

October 2023 - December 2023

An AI where tweets are analysed to classify their possible sentiments using Machine Learning.

- Developed a machine learning model to analyse and classify social media posts into emotional categories.
- Employed Natural Language Processing (**NLP**) techniques such as tokenization, word embeddings and vectorization to process a supervised dataset for classification.

Cloud infrastructure deployment with Google Cloud

August 2023 - October 2023

A complete cloud-based infrastructure using Google Cloud Platform.

- Deployed four virtual servers applying Compute Engine: Web, Application, Data and Email server.
- Installed Apache and PostgreSQL for Web and Data server respectively.
- Set up Mail-in-a-box for the Email server and Thunderbird as a mail client to query our Email server.
- Managed domain registration using a free .tech domain via GitHub Student Developer Pack.

Microservices Architecture - Spring Boot API Development

February 2023 - June 2023

APIs to generate invoices for products purchased by clients implementing microservices architecture.

- Built multiple APIs: Product API, Customer API, Invoice API and Exchange-rate API (integrating CoinCap API) using **Maven**, **Java**, **Spring Boot**.
- Integrated REST APIs within a microservices architecture with a config-service, gateway-service, admin-service and Netflix Eureka server.
- Used MySQL Server to manage databases where I stored data from customers, products and invoices.
- Tested APIs using Postman to ensure correct functionality and performance.

Backend & Frontend for Software Engineering Project

February 2023 - June 2023

A simulation of an industry website which has a logging system using HTML, CSS and JavaScript.

- Designed a login and a registration form on the same page with CSS animations.
- Integrated frontend components with backend services.
- Emphasized design principles to create a user-friendly experience.

Skills

Technical: Java (Intermediate), C# (Intermediate), Python (Intermediate), C++ (Intermediate), C (Beginner), Blender (Advanced), Unity 3D (Intermediate), HTML (Intermediate), CSS (Intermediate), JavaScript (Intermediate), SQL (Intermediate), Git/Github/Gitlab (Advanced), Docker (Beginner), Windows/Linux (Advanced), Music Production (Intermediate), Video Editing (Advanced), PowerPoint (Advanced), Excel (Beginner).

Soft skills: Problem solving & critical thinking, teamwork, project management, adaptability, continuous learning, communication skills, empathy, proactivity, reliability, innovation and enthusiasm.

Languages: Spanish (native), English (Intermediate)