





Eduardo Venegas

Computer Science Student

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EDUCATION

Computer Science Exchange Student Universität Ulm

10.2022 – 09.2023 Ulm, Germany

- Got **accepted** as an international student with a **full scholarship** provided by the DAAD.

Bachelor in Computer Science Engineer Tecnológico de Monterrey GDL

08.2019 – 07.2024 Zapopan, Jalisco

- 60% Tuition** scholarship due to academic merit. Won first place in the Campus Engineering Expo.
- Member of the Algorithm Club school group. GPA: **97.51** (Achieved one of the best GPA 4 times)

Technologist in Automatic Control and Instrumentation CETI Colomos

08.2015 – 06.2019 Guadalajara, Jalisco

- Thesis Project:** Built an Autonomous Tennis Machine from scratch using **motors, electronics** and **Arduino**.

SKILLS

Languages

JavaScript TypeScript Python R C++ C MATLAB SQL

Lib/Frameworks

React React Native NextJS Angular Ionic Flask Node Jest TensorFlow

Tools

Linux Docker AWS CI/CD Git Monitoring Arduino

WORK EXPERIENCE

Data Analyst Intern BMW Group

03.2023 – Present Munich, Germany

- Created a **prediction algorithm** for detecting a feature change with a **99.94% accuracy**.
- Found **root cause** to **missing database values**, created a new processing pipeline and **increasing service demand by 62%**.
- Developed a Streamlit dashboard to **tweak a production model** and get data **output in real time (<8 seconds)**.
- Setup environment to work with **PySpark** in the cloud.

Site Reliability Engineer & Developer Xira

01.2022 – 04.2021 Remote

- Maintained** several servers, **monitor** services and **improved** engineering processes.
- Developed a **platform** to manage the client's **APIs** with payments and a subscription system using **NextJS, Stripe** and **Docker**. Maintained a **text analytics** model to categorize messages for clients.

Production Engineer Fellow Major League Hacking & Meta

06.2021 – 09.2021 Remote

- One of the 120 selected students from a total of 20,000. Automated a **CI/CD** workflow using **GitHub Actions** to deploy changes to a production server. Monitored the app using **cAdvisor, Prometheus** and **Grafana**.
- Served it in a **Docker** container, guaranteeing **99.99%** uptime on a **AWS EC2** instance.

Data Engineer Jiit Technologies

03.2021 – 06.2021 Remote

- Created an analysis pipeline API for custom sales data using **Flask, NumPy, SciPy** and **Prophet**.

Full Stack Developer Jiit Technologies

10.2020 – 06.2021 Remote

- Developed from scratch an **ERP** platform to organize inventory, human resources, shipments, income/expenses. **Angular**.

PROJECTS

See Your World

Ionic Angular Docker TensorFlow CNN & RNN

- Won **2nd** place in **HackMTY**. Developed an app that lets people with limited vision see by using an **Image Captioning** DL model, **Ionic Angular**, a translation API and a **Text2Speech** library. Works in **11 languages**.
- Built the model with **TensorFlow**, a **CNN-RNN** architecture and hosted with **Flask, Docker** and **Google Cloud VM**.

DevUp

CI/CD Docker React AWS Monitoring

- Won** MLH Production Engineering Hackathon. Platform to help developers find teammates for side projects.
- Used **Ionic React, Docker, AWS EC2, NGINX, Flask, PostgreSQL, CI/CD, cAdvisor, Grafana** and **Prometheus**.

Room System

Angular Firebase IoT Deep Learning

- Won **1st** place in the **Campus Engineering Expo**. Developed an app to control IoT home devices (lights, doors...).
- Used **Angular, Firebase, a NodeMCU** board and **Keras** to predict the climate.

CERTIFICATIONS

- Mathematics for Data Science Specialization *Higher School of Economics - 2021*
- Data Science Professional Certificate *HarvardX - 2020*
- Python Data Science Professional Certificate *IBMx - 2020*
- Deep Learning Professional Certificate *IBMx - 2020*
- Google IT Support Specialization *Coursera - 2020*

LANGUAGES

Spanish Native ●●●●●●●●
English Fluent ●●●●●●●●
German C1 ●●●●●○