

# 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

- Worked on learning-based solutions for **predictive maintenance of vehicles**.
- Designed and implemented **data science applications**, machine learning **pipelines**, and **model performance** tracking tools.

**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

- Used mathematical and statistical technics over data to get the most important **features**. Designed models that generate **predictions** as well as valuable insights. Created a ML sales analysis pipeline API 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.
- Created features to a **COVID tracking** platform and a **Marketplace** using **Ionic Angular**, **TS**, **SQL** and **Flask**.

## 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 ●●●●●○