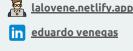
Eduardo Venegas

Computer Science Student





EDUCATION

Computer Science Exchange Student Universität Ulm

10/2022 – 09/2023 Ulm, Germany

• Full scholarship recipient from DAAD. Computer Vision II | Autonomous Driving and Assistance Systems | Statistics

Bachelor in Computer Science Engineering Tecnológico de Monterrey GDL

08/2019 - 12/2023 Zapopan, Mexico

- Awarded a 60% tuition scholarship for academic merit. First place in the Campus Engineering Expo.
- Member of the Algorithm Club school group. Achieved a GPA of 97.51, ranking among the top students four times.

Technologist in Automatic Control and Instrumentation CETI Colomos

08/2015 – 06/2019 Guadalajara, Mexico

• Thesis Project: Constructed an Autonomous Tennis Machine from the ground up using electronic components and a PLC.

SKILLS

Languages

JavaScript TypeScript Python R C++ C Matlab SQL

Lib/Frameworks

React React Native NextJS Angular Ionic Flask Node Jest TensorFlow Chakra

Tools

Linux Docker AWS CI/CD Git Monitoring Grafana Prometheus Arduino

WORK EXPERIENCE

Data Analyst Intern BMW Group

03/2023 – 09/2023 Munich, Germany

- Developed a high-accuracy algorithm for detecting external battery replacements.
- Found root cause to missing database values, created a new processing pipeline and increasing service demand by 62%.
- Designed a Streamlit dashboard for adjusting prediction model parameters and obtaining a real-time output (<8 seconds).
- Configured cloud-based environments for working with PySpark.

Site Reliability Engineer & Developer xira

01/2022 - 04/2021 Remote

- Managed over 10 servers, monitored services and enhanced engineering processes.
- Built a platform to manage client APIs, integrating payments and subscription systems using NextJS, Stripe and Docker.
 Maintained a text analytics model for message categorization, benefiting clients.

Production Engineer Fellow Major League Hacking & Meta

06/2021 - 09/2021 Remote

- Selected among 120 out of 20,000 applicants. Automated **CI/CD** workflow using **GitHub Actions** for efficient deployment to a production server. Implemented app monitoring with **cAdvisor**, **Prometheus** and **Grafana**.
- Ensured 99.99% uptime by hosting it in a Docker container on an AWS EC2 instance.

Data Engineer Jiit Technologies

03/2021 - 06/2021 Remote

Designed a custom sales data analysis pipeline API using Flask, NumPy, SciPy and Prophet.

Full Stack Developer Jiit Technologies

10/2020 - 06/2021 Remote

• Built an ERP platform from scratch to manage inventory, human resources, shipments, income and expenses. Angular.

PROJECTS

See Your World | Ionic Angular | Docker | TensorFlow CNN & RNN

- Crafted a hackathon award-winning app for the visually impaired, supporting 11 languages.
- Engineered Image Captioning DL model with TensorFlow, deployed using Flask, Docker, and Google Cloud VM.

DevUp CI/CD Docker React AWS Monitoring

- Secured victory in 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

- Awarded 1rst 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

Data Science Professional Certificate

Python Data Science Professional Certificate

• Deep Learning Professional Certificate

• Google IT Support Specialization

Higher School of Economics - 2021

HarvardX - 2020

IBMX - 2020

IBMX - 2020

Coursera - 2020

LANGUAGES