

# Eduardo Venegas


Computer Science Student

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 LaloVene

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 [eduardo venegas](#)

## 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 **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** C1 ●●●●●  
**German** C1 ●●●●○