Eduardo Venegas
Computer Science Student

✉ lalohdez77@gmail.com 🔒 lalovene.netlify.app
📍 Zapopan, Mexico in eduardo venegas
○ LaloVene

EDUCATION

Computer Science Exchange Student Universität Ulm   10.2022 – 09.2023   Ulm, Germany
- Awarded a **full scholarship** from the **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
- **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, Mexico
- **Thesis Project:** Built an Autonomous Tennis Machine from scratch using **electronic components** and a **PLC**.

SKILLS

Languages `JavaScript` `TypeScript` `Python` `R` `C++` `C` `Matlab` `SQL` `Java`

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** to adjust prediction model parameters and obtain **real-time output (<8 seconds)**.
- Configured **cloud-based environments** for working with **PySpark**.

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 **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   *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 ● ● ● ● ○