Eduardo Venegas
Computer Science Engineer

lalohdez77@gmail.com lalovene.netlify.app
Saarbrücken, Germany eduardo venegas
LaloVene

EDUCATION

MSc. Data Science and Artificial Intelligence Universität des Saarlandes *10/2024 – 09/2026* *Saarland, Germany*
- Coursing degree. *Machine Learning | Deep Learning | Data Mining | Big Data | NLP | Computer Vision*

BSc. Computer Science Tecnológico de Monterrey GDL *08/2019 – 12/2023* *Zapopan, Mexico*
- Grade: 94.6 / 100. Five times best software engineering GPA. **60% tuition** scholarship due to academic merit.
- Strong foundation in mathematical modelling, statistical methods, and computational techniques.

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*

Technologist in Automation and Robotics CETI Colomos *08/2015 – 06/2019* *Guadalajara, Mexico*
- **Thesis Project:** Built an Autonomous Tennis Machine. *Electronics | Robotics | Industrial Automation | Electricity | PLCs*

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

Cloud Software Engineer Oracle *11/2023 – Present* *Guadalajara, Mexico*
- Worked on the **Oracle Cloud Infrastructure** in the team of **Big Data Service** in **Oracle Analytics**.
- Developed the console for managing and deploying **big data clusters**. Implemented **pipelines** for automation and testing.

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.

Fellow - Production Engineer 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**.

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*

LANGUAGES

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