# Eduardo Venegas
## Computer Science Engineer

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## EDUCATION

**MSc. Data Science and Artificial Intelligence** Universität des Saarlandes  *10/2024 – 09/2026*  *Saarland, Germany*
- Coursing degree. *Machine Learning | Neural Networks | Quantum AI | LLM/Autonomous Agents*

**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 – 10/2024*  *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  ● ● ● ● ○