Eduardo Venegas
Computer Science Student

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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

OCI Python Developer II Oracle — *11/2023 – Present — Guadalajara, Mexico*
- Working on the **Oracle Cloud Infrastructure** in the team of **Big Data Service**.
- Designing, implementing, and maintaining scalable and efficient solutions on OCI.

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**.

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 ● ● ● ● ○