

# DANIEL DIAZ

## SOFTWARE DEVELOPER

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### WORK EXPERIENCE

#### FH Oberösterreich

Steyr, Austria

##### *Full Stack Developer*

2024.01– Now

- Developed a **Mapbox-based rice supply chain visualization app** to track how failures in a node propagate to others, incorporating **live weather alerts** to monitor events affecting supply routes.
- Designed and deployed a **machine learning pipeline** with **XGBoost** to forecast **tomato trade quantities**, selecting key **production features** and building **country-specific models** to monitor risks for Austria's supply.
- Built a **backend system** with **API integrations** and **scheduled web scraping**, enabling **weekly data refreshes**, **automated predictions**, and **interpretable insights** for supply chain monitoring.

#### VREEDA GmbH

Essen, Germany (Remote)

##### *Frontend Developer*

2022.02 – 2023.03

- Redesigned a smart light application using **React Native**, transforming provided **Figma designs** into functional screens and workflows.
- Developed key features, including **bulb connectivity**, **schedule creation**, and **notification/message inbox services**, enhancing **user experience** and **functionality**.

#### Servex US

New York, USA (Remote)

##### *Software Developer*

2018.07 – 2021.07

- Developed smart catalogs for office furniture using **C++ OOP** for desktop applications.
- Built a 3D office furniture configurator for the web using **Babylon.js**, managing the full project lifecycle from client discussions to deployment, and collaborating closely with **developers** and **3D artists**.
- Did an initial pilot of a mobile configurator with **AR capabilities** using **ARKit/ARCore**.
- Implemented **physically based rendering (PBR) pipelines** and optimized 3D models using **glTF**, enhancing **visuals** and ensuring **performance** across platforms.

### EDUCATION

#### FH Oberösterreich - Hagenberg

Hagenberg, Austria

##### *M.Sc. in Interactive Media*

2022 – 2024

- **Key Coursework:** Hypermedia UX, AI, Info Visualization, Intelligent Media, Big Data, Visual Computing
- **Thesis:** Using AI Models for Advertisement Generation: Evaluating the Effects on Visual Perception and Attention

#### Universidad Militar

Bogota, Colombia

##### *B.E. in Mechatronics Engineering*

2012 – 2018

- **Key Coursework:** Advanced Maths, Robotics, AI, Virtual Reality
- **Thesis:** Wildfire prevention through the use of computer vision on UAV

### SKILLS

**Languages:** Python, TypeScript, SQL

**Frameworks & Tools:** Fast API, React, React Native, Docker, Git

**Libraries:** Three.js, Babylon.js, Mapbox

### LANGUAGES

Spanish (native), English (C1), German (A2)