
PROFILE

I am a Software Engineer with 5+ years of experience building and maintaining web applications across diverse domains, including ERP systems, e-commerce platforms, 3D robotics visualization tools, and general-purpose dashboards. My technical expertise includes **Python**, **JavaScript/Typescript**, **SQL/NoSQL**, **Docker**, and **GitLab/GitHub**.

My main interests are: algorithms, data structures, system design, distributed systems, and databases. I really like to think about how to take advantage of the knowledge I have to serve my neighbor in the best possible way.

WORKING EXPERIENCE

Apr 2022 - Present **Software Engineer, Ekumen, Inc**

- 3D Robotics Dataset Visualization (*Third-Wave Automation*):
 - Built a 3D visualization tool for robotics datasets using **Fast API**, **React** and **Deck.gl**
 - Leveraged **Socket.io** to establish a **WebSocket** connection between client and server
 - Processed and rendered real-time data at about 10 Hz
- Internal Sensor Data Visualization (*Google*):
 - Designed and implemented a sensor data visualization dashboard for Google's watch team
 - Developed with **Angular**, **Protocol Buffers**, **Spanner Database**, and **Python**
 - Communication between client and server was made upon **gRPC** architecture
 - Participated in the **system design** defining entity models, table structures, and Protocol Buffer messages schema
- Robotics Dashboard Web Application (*Relay Robotics*):
 - Maintained a web application for general-purpose robotics analytics written in **React** and **Fast API**
 - Communication between client and server was made upon **REST** architecture
 - Proactively added a logging decorator which improved the system logging functionality

Sep 2019 - March 2022 **Software Developer, Baran Consulting and Associates**

- Managed and maintained an enterprise resource planning (ERP) system written in **Python (Django)** and **AngularJS**, ensuring stability, adding new features, and setting expectations by meeting with stakeholders
- Designed and developed an e-commerce platform leveraging **Python (Django)** and **Angular**
- Contributed to the **system design** and **implementation** of a new version of the company's ERP system using **Django** and **React**, focusing on performance improvements and updated user interfaces

EDUCATION

Feb 2014 - Dec 2019 BS. Computer Science, National University of Asuncion

LANGUAGES

- Spanish Native
- English C1