Lucas Guerrero, Software Engineer

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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**, **Socket.io**, and **Deck.gl**
    - 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 Db**, and **Python**
    - 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**
    - 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

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EDUCATION

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

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LANGUAGES

- Spanish   Native
- English   C1