

## CONTACT

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 **BuilderTron**

 Katy, TX

## CORE AREAS

Agile Methodologies

Algorithms

Analytics

Big Data

CI/CD & DevOps

Clean Architecture

Data Pipelines

Extract, Transform, Load (ETL)

Database Architecture

Object-Oriented Programming

Product Development

Project Management

Testing & QA

SDLC Methodologies

Troubleshooting & Debugging

## TECHNICAL SKILLS

**Back End:** Python, Django, SQLite, Fast API, PostgreSQL

**Front End:** HTML5/CSS, JavaScript, Bootstrap

**Tools:** Docker, Kubernetes, Jenkins, Datadog, GitHub, Git, Linux Unix, Windows, Mac.

**Cloud:** AWS, Azure, GCP

## EDUCATION

Multiple Python, Full Stack, and Backend development courses



# JOSE J. LOPEZ

## BACK-END SOFTWARE ENGINEER

Growth-focused Back-End Software Engineer with a four-year achievement record in designing, building, and launching functional and scalable software products, systems, and solutions in Agile settings. Proficient at utilizing a range of programming languages and producing clean, sustainable, and efficient code. Exceptionally dedicated professional with impressive interpersonal, problem-solving, and relationship-building skills, thrives in dynamic cross-functional environments.

## PROFESSIONAL EXPERIENCE

### Back-End Software Engineer, Additech | Apr 2022 – Present

- Steering the back-end design, development, and deployment of 5+ advanced applications, systems, and solutions in a fast-paced Agile environment.
- Gathering functional requirements from business stakeholders, defining deliverables, articulating roadmaps, and ensuring new solutions delivered tangible business benefits.
- Developing and maintaining microservices handling 5,000,000+ requests daily, ensuring low latency, high availability, scalability, and security.
- Building and maintaining RESTful APIs, enabling seamless integration with various front-end applications, ensuring effective data flow, and boosting data processing speed by 89%.
- Maintaining a robust testing environment by using the TDD approach while creating automated scripts to reduce manual test usage by 30% and accelerate efficiency.
- Conducting unit and integration testing across components, uncovering pain points and defects, implementing corrective measures, and augmenting product quality.
- Establishing and maintaining fully automated CI/CD frameworks and pipelines via Bitbucket and DockerHub to support efficient microservices deployment and deliver reliable and scalable solutions.
- Orchestrating large-scale cloud migration project from on-prem to AWS using PostgreSQL, slashing server maintenance costs by 91.43%.
- Designing, developing, and maintaining robust, scalable, and efficient ETL pipelines, continuously optimizing ETL processes to drive data quality, reliability, and performance.
- Pioneering asynchronous pub/sub-MQTT service, integrating with AWS database, and allowing 200+ IoT devices to send sensor data in real-time.
- Creating touchscreen app for IoT devices in gas stations, enabling users to configure network and fuel pump settings, and eliminating manual SSH Shell configuration.
- Steering milestone integration of IoT communication protocols with partner company products, expanding market reach by 450%.
- Engineered a transformative media player for fuel dispensers, quadrupling daily sales of fuel additives through targeted video & audio advertising, compelling users to engage and purchase.

### Web Developer, Nelson's Video & Photography | Feb 2020 – Apr 2022

- Directed the back-end overhaul of the website, enhancing site performance, enabling scalability, and reducing load times by 87%.
- Headed the full-cycle design and development of a Django-Wagtail-based CMS, enabling seamless content management and updates across 13 pages.
- Designed and integrated RESTful API within the CMS, facilitating data exchange and boosting data retrieval speed by 60%.
- Created containerized PostgreSQL database to manage information for 80+ clients per year, enabling streamlined data analysis and ensuring 99.9% uptime.

## INDEPENDENT PROJECTS

- Engineered secure password generator using Python random module hosted on AWS with Django back-end.
- Created to-do list web app using Django, implemented CRUD functionality, and delivered immersive user experiences.
- Developed SEO multi-page business website using Django, designed inventive features and functionalities, integrated PostgreSQL database, and incorporated Google Analytics to track activity across 400+ users.
- Currently developing Android TV streaming app using Java set for integration with AWS-hosted website using AWS Aurora, S3, EC2, and Lambda.