

# MIGUEL PEREZ

Computer Science Student | Developer | ERP Specialist

@perezmiguel561@gmail.com

Chino, CA, USA

www.miguelp.codes

linkedin.com/in/miguel-perez-61612b184

## SUMMARY

Driven and versatile Computer Science student at Cal Poly Pomona (Graduating August 2025) with a 3.8 GPA and a hands-on approach to solving technical and operational problems. Strong foundation in backend and systems programming with Java, C/C++, and Python. Experienced in building intelligent developer tools, managing ERP systems (Microsoft Dynamics 365 Business Central & SAP ByDesign), and creating full-stack web and mobile apps. Project manager for software engineering teams, with a track record of leading innovative, AI-powered solutions from concept to delivery. Passionate about emerging technologies, intuitive UI/UX, and automation that bridges business and tech.

## PROFESSIONAL EXPERIENCE

Technical Lead ERP Systems Developer

Universal Lighting Systems

August 2019 – Present

Jurupa Valley, CA

- Lead technical efforts in ERP configuration (Microsoft Dynamics 365 BC & SAP ByDesign), optimizing workflows for credit memos, prepayments, and customer orders.
- Created Excel and PDF reports for sales, backorders, and pricing logic using Python and Power Automate.
- Developed internal tools for commission calculation, product categorization, and automated emailing.
- Managed hardware deployment, security camera systems, and new computer setups for staff.
- Acted as primary project contact for IT operations, reporting, and system integrations.

## PROJECTS & INITIATIVES

AI Inventory Agent

Personal Project / Coursework

- Python, SQLite, OpenAI API, Matplotlib
- Built a natural-language-based AI agent interacting with inventory data via a Python backend and SQLite.
- Designed functional specs, ER diagrams, and sequence diagrams as project manager.
- Enabled flexible querying of products, sales, and backorders through OpenAI-powered NLP.
- Created visualizations using Matplotlib and automated Excel/PDF reporting tools.

SureCost Budget App

Personal Project / Coursework

- Flutter, Firebase
- Developed a real-time budget planner with Flutter and Firebase.
- Designed an intuitive mobile UI for itemized planning, live calculations, and tip/tax logic.

## TECHNICAL SKILLS

### Languages

Java C C++ Python C# SQL  
JavaScript HTML/CSS Bash

### Frameworks & Tools

React Flutter Streamlit Git Firebase  
Unity

### Systems & Platforms

MS Dynamics 365 BC SAP ByDesign  
Linux macOS Windows

### Microsoft Power Platform

Power Automate Power BI Power Query

### Competencies

AI Integration ERP Admin Data Viz  
Automation API Design Hardware Setup  
Documentation Project Mgmt

## EDUCATION

B.S. in Computer Science

California State Polytechnic University,  
Pomona

August 2025

Pomona, CA

- GPA: 3.8
- Relevant Coursework: Backend Web Development, Systems Programming, Artificial Intelligence, Database Management, Software Engineering

- Integrated Firestore for real-time storage and user authentication with email/password login.
  - Built automation for syncing data, managing offline mode, and updating plan states.
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## Shipping Container Optimization Tool

### Personal Project / Coursework

📍 Python, Streamlit, Pandas, NumPy

- Created a Python tool to optimize shipping container packing, migrated from Excel to Streamlit.
- Implemented logic for weight-based prioritization and item constraints using pandas and NumPy.
- Created a slider-based interface for users to define priorities like volume, weight, and fragility.
- Added database integration for inventory lookup and persistent configurations.