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# Luis Perez

**GitHub:** github.com/lp2399
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## *SUMMARY*

Bilingual (English and Spanish) Software Engineer working on a Computer Science degree and with a proven five-year track record in application development and project management. Proficient in multiple programming languages and development environments, with a strong ability to adhere to project timelines and deliver results.

## *EDUCATION*

**Benedictine University (Mesa, Arizona)**
Bachelor of Science in **Computer Science** , Minor in Fine Arts (Degree requirements completed, pending issuance)
**GPA: 3.22/4.0**

## *AWARDS, ACADEMIC CLUBS*

- Recipient of TheDream.US National Scholarship
- TheDream.US SHPE Conference Grant 2023
- Hispanic Student Association Club
- Campus Ministry Club

## *RELEVANT COURSEWORK*

- Applied Linear Algebra
- Applied Statistics
- Computer Science Capstone
- Data Structures and Algorithms I and II
- Database Management Systems
- Discrete Mathematics
- Introduction to Front End Web Development
- Machine Learning
- Modern Cryptology and Applied Number Theory
- Object Oriented Programming and Design
- Operating Systems
- Software Engineering

## *TECHNICAL SKILLS AND PROGRAMMING LANGUAGES*

Programming Languages and Libraries: **Python** (Pandas, Numpy, scikit-learn, SciPy, Matplotlib, Seaborn) • Java
Document Preparation: LaTeX
Web Development Technologies: **JavaScript** (React.js, Chart.js) • HTML • CSS (Bootstrap) • Node.js
Development Environments: **Visual Studio Code** • IntelliJ IDEA • Jupyter Notebook • Google Colab • Terminal (Bash - Unix shell) • Conda
Backend and Database Management: Firebase • npm • Database Management (SQL, NoSQL)
Data Interchange and Version Control: JSON, XML • Version Control Systems (**Git**)
Operating Systems: Windows • Linux

## *CORE SKILLS*

- Data Analysis and Visualization with Python (Pandas, Numpy, Matplotlib, Seaborn), JavaScript (Chart.js), and Lucidchart for diagramming.
- Full Stack Web Development (HTML, CSS, Bootstrap, JavaScript, React.js, Node.js).
- Machine Learning Basics; Data Cleaning and Preprocessing.
- Strong foundation in Mathematical and Scientific Computing, with coursework in Applied Linear Algebra, Applied Statistics, Data Structures, Algorithms, and Machine Learning.
- Knowledgeable in Modern Cryptology and Applied Number Theory, enhancing security and mathematical computation skills.
- Backend Development (Node.js, Firebase); Database Management (SQL, NoSQL).
- Software Testing and Debugging in Visual Studio Code, IntelliJ IDEA.
- Project Design and Management; User Experience Principles. Prompt Engineering for Application development using GPT-4; Analytical Problem-Solving.
- Version Control with Git; Proficiency in Windows and Linux environments.

## *RELEVANT PROJECTS*

**Fitness Web Application**

- Developed a React.js and Firebase fitness app for tracking workouts, weight, and nutrition, showcasing user-friendly design and secure technology integration.

**Powerlifting Performance Analysis and Prediction**

- Analyzed Kaggle's powerlifting data, applying machine learning (Linear Regression, K-NN, MLP) to predict performance by age, sex, weight, and equipment.

**Sociology Research on Benedictine University Students with Data Analysis**

- Surveyed Benedictine University students on autonomous technologies, analyzed data with pandas, and visualized findings using Matplotlib and chart.js.