
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 (projected graduation: Spring 2024)

GPA: 3.33/4.0

AWARDS, ACADEMIC CLUBS

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

RELEVANT COURSEWORK

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