Sebastian Yepez

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EDUCATION

University of Nevada, Las Vegas Graduation Date: May 2026
Bachelor of Science in Computer Science
Bachelor of Science in Mathematics, Concentration in Actuarial Sciences

TECHNICAL SKILLS

Languages: C++, Python, SQL, MIPS and x86 ASL, Java, Javascript, MATLAB
Developer Tools: VSCode, BitBucket, AWS, Arduino, Ubuntu, Jupyter Notebook

PROFESSIONAL EXPERIENCE

Data Engineer Intern - Odditt May 2024 – August 2024
Transforming the sports-betting industry with a world-class odds database.

- Collaborative Development: Working closely with the CTO to create data engineering solutions, including building out pipelines, transformations, and data lake/data warehouse models and infrastructure.
- Source Systems Analysis: Researching and assessing open-source data sources for real-time and historical sports statistics. Analyzing UI/UX elements of existing sports betting tools to guide product roadmap decisions.
- Data Pipeline Development: Building infrastructure for core data services and developing essential data pipelines using Kafka and AWS DMS.
- Analytics Engineering: Designing, developing, testing, and deploying Python and SQL code for data transformations. Creating dashboards to monitor data feeds and transformations.

STEM Student Mentor - National Science Foundation April 2023 - June 2023; April 2024 - June 2024
Introducing the youth to the world of STEM.

- Provided students experience in summer ‘23 with LED’s, motors, sensors, and wireless connections and a final project that allowed them to see real world implications of these technologies and gave them the confidence to present their work.
- Lead a second group of students in summer ’24 through the process of replicating my “MyGPT” project.
- Challenged students to create running programs with the components to understand their implementations in the project.

PROJECTS

“MyGPT” - ChatGPT Clone utilizing ESP32 Microprocessor | C++, Arduino

- Developed a ChatGPT-replica running on an ESP32 Microprocessor, leveraging OpenAI’s API and websockets for user communication.
- Utilized the ESP32’s built-in WiFi capabilities and a TCP connection (websocket) to retrieve user prompts, send them to OpenAI, and return responses to the user.
- Gained proficiency in working with APIs, IoT, and text generation.

Battery Workforce Challenge | Simulink – MATLAB, OpenECU
A three-year student competition that challenges 12 North American universities to design, build, test and integrate an advanced EV battery pack into a Stellantis vehicle.
Software Subteam

- Conducting research on battery management systems (BMS) and investigating different components and algorithms such as the Kalman Filter through MATLAB’s Simulink.
- Utilizing OpenECU to develop our own embedded software for the Electronic Control Unit of our battery pack.

RELEVANT COURSEWORK

Data Structures & Algorithms | C++

- Created programs utilizing data structures such as priority queues, hash maps, and graphs.
- Implemented algorithms such as Dijkstra’s Shortest Path and Kruskal’s Minimum Spanning Tree.

Data Analyst Bootcamp | Jupyter Notebook, Python

- Participating in a data analysis bootcamp provided by IBM Skillsbuild and Parker Dewey.
- Cleaning and analyzing data utilizing technologies such as Jupyter Notebook, Pandas, and NumPy.