DANIEL TORRES

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As a versatile software engineer proficient in Python, C++, and SQL, I excel in automating workflows, developing backend solutions, and ensuring data integrity across multiple platforms. My holistic approach to software development, backed by hands-on experience in these languages, has proven effective in both academic projects and diverse industry roles.

Education

California State University, Bakersfield — Bakersfield, CA
Bachelor of Science, Computer Science — 04/2019 — 05/2023

Skills

Programming Languages: Python, C++/C, PHP, PowerShell, SQL
Web Development: HTML, CSS, JavaScript
Experience with: Windows, MacOS, Linux, Network Protocols, Git/GitHub, Development Methodologies, Automation

Experience

Jaco Oil Company — Bakersfield, CA
Information Technology Intern — 08/2023 — Present
- Successfully configured 20 servers running virtual machines used to modernize infrastructure at convenience stores.
- Streamlined communication with Microsoft Database Mail through SQL triggers, notifying employees about task completions. Enhanced managerial awareness regarding completed tasks based on real-time database updates.
- Demonstrated problem-solving skills by effectively diagnosing and resolving an issue identified in application logs. This fix enabled seamless ticket submissions to our ticketing system, enhancing overall operational efficiency.

Kern Health Systems — Bakersfield, CA
Cyber Security Intern — 05/2023 — 08/2023
- Monitored network interactions, gaining exposure to network protocols and using network analysis tools (Fortigate).
- Developed a network scanner with Python to identify potential points of intrusion and potential vulnerabilities.
- Implemented and managed a CI/CD pipeline in GitHub, automating the environment setup process and rigorously performing unit tests to ensure proper software development practices and ensuring code integrity and quality.

California Resources Corporation — Bakersfield, CA
Data Automation Specialist Intern — 05/2022 — 11/2022
- Automated the collection of more than 1 million+ rows of telemetry data using PowerShell scripting, resulting in a significant improvement in the efficiency of the data collection process.
- Automated SQL queries to clean and maintain a constant flow of data, ensuring data was accurate and consistent.
- Employed standardized flowchart symbols to document code logic and flow, significantly enhancing comprehensibility and long-term maintainability.

California Resources Corporation — Bakersfield, CA
Engineering Technology Assistant — 05/2021 — 05/2022
- Used Excel to calculate well cement calculations, making decisions based on logic, ensuring calculation integrity.
- Reviewed documentation to find relevant information on oil wells, increasing my knowledge of the industry.
- Inserted formulas in Excel to automate tasks, resulting in more efficient use of time and resources.

Computer Science Department — Bakersfield, CA
Instructional Student Aid — 01/2021 — 12/2022
- Helped students understand abstract programming concepts in C++, using my own knowledge and experience to explain complex topics in a clear and concise way.
- Graded up to 30 student labs and homework assignments, providing constructive feedback that helped students improve their understanding of the material.

Relevant Projects – CSU Bakersfield

Senior Project | Core Analyzer | Python, TensorFlow | API Development — 08/2023 - Present
- Trained a convolutional neural network(CNN) on a dataset of core rock images to classify and produce regression. values for oil saturation.
- Evaluated the performance and found that it achieved 80%+ accuracy on classification and regression tasks.
- Results demonstrate the potential of using CNN's to improve the efficiency and accuracy of oil exploration.

Software Engineering | Cosmotost | OpenGL, C++ — 02/2023 – 05/2023
- Gathered requirements to develop and design graphic-based game using OpenGL and C++.
- Used Kan Ban methodology to develop and maintain both software and responsibilities.
- Game includes time functions, score/life bars, settings, and key binding instructions.

Database Systems | PayPool | HTML, CSS, PHP, MariaDB, SQL — 08/2022 – 12/2022
- Pay pool web application used to keep track of transactions on any trip.
- Designed Entity Relation Model for Database.
- Users assigned profiles and can access multiple views of the application depending on who they are.