

# DANIEL TORRES

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Software Engineer with experience in Python and C++ development. Excellent documentation skills and proven track record of collaboration and software development. Experience with various database systems and knowledge of system design. Seeking a challenging position where I can use my skills and experience to make a significant impact.

## Education

California State University, Bakersfield Bakersfield, CA  
Bachelor of Science, Computer Science 04/2019 — 05/2023  
Related Course work: Software Engineering, Data Structures and Algorithms, Programming Languages, Algorithm Analysis, Computer Networks, Operating Systems, Database Systems, Artificial Intelligence, Vulnerability Analysis

## Skills

Programming Languages: Python, C++/C, Perl, PHP, Assembly, Power Shell, SQL, OpenGL, Java  
Experience with: Oracle, MySQL, CI/CD pipeline, flowchart documentation, Network protocols, cyber security, git

## Experience

**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).
- Proactively learned new software technologies quickly to adapt to evolving cybersecurity threats and challenges.
- Created a network scanner with Python to identify potential points of intrusion and potential vulnerabilities.

**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.
- Created SQL queries to clean and maintain a constant flow of data, ensuring data was accurate and consistent.
- Documented flow of the code using flowchart symbols resulting in the code being easier to understand and maintain.

**California Resources Corporation** Bakersfield, CA  
*Engineering Tech Assistant* 05/2021 — 05/2022

- Used Excel to calculate well bore cement calculations, making decisions based on logic and ensuring that the calculations were accurate.
- Reviewed documentation to find relevant information on oil wells, increasing my knowledge of the industry and improving my ability to understand and solve problems.
- 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.
- Reviewed and advised students on programming practices, helping them develop good habits for future careers.

**Computer Science Department** Bakersfield, CA  
*Tutor* 08/2020 — 12/2022

- Using my experience in computer science to teach students difficult concepts in C++.
- Providing explanations via alternate delivery.
- Actively learning new solutions students present.

## Relevant Projects – CSU Bakersfield

**Senior Project** | Core Analyzer | Python, TensorFlow 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.