Brooklyn Stitt

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EDUCATION

California State University Bakersfield — Bakersfield, CA
Bachelor of Science in Computer Science GPA: 3.6 — *Aug. 2023 – May 2027*

WORK EXPERIENCE

Software and Web Developer — Oct. 2025 – Present
California Energy Research Center (CERC) — *Bakersfield, CA*
- Develop an interactive conference program webpage featuring dual tracks, structured schedules, and a featured speaker section, implementing responsive layouts and dynamic visual elements.
- Troubleshoot and resolve parsing and layout issues in a live web environment, maintaining functional integrity while iterating on design enhancements.

C++ Fundamentals Teacher Assistant — Jan. 2025 – Present
California State University: Bakersfield — *Bakersfield, CA*
- Provides direct support in lectures, labs, and office hours, ensuring students can grasp complex C++ topics such as data types, control structures, functions, object-oriented programming, and memory management.
- Facilitates interactive in-class discussions, group activities, and coding challenges to maintain student engagement and enhance understanding of core programming topics.

Lead Computer Science Tutor — Aug. 2024 – Present
California State University: Bakersfield — *Bakersfield, CA*
- Provides one-on-one and group tutoring sessions in various computer science topics, including programming languages, data structures, and algorithms.
- Assists students in understanding complex concepts by breaking down material into manageable sections.

PROJECTS

Airline Reservation System | *SQL(MariaDB), PHP, HTML, CSS, JavaScript, Stored Procedures* — Dec. 2025
- Developed a web-based airline reservation system where users could search flights, book tickets, and manage reservations.
- Designed and implemented a relational database in MariaDB with tables for flights, passengers, reservations, and payments.
- Wrote SQL queries and stored procedures to handle flight availability, bookings, and cancellations with transactional integrity.
- Developed the backend using PHP, integrating the database with a dynamic front-end in HTML, CSS, and JavaScript.
- Created a responsive UI for booking workflows, providing real-time updates and enforcing seat availability rules.

Fruit Guessing Game | *Python, Flask, SQLite, HTML, CSS, JavaScript* — Jul. 2025
- Implemented a decision tree logic to narrow down fruit options by asking broad questions to eliminate large categories of fruits and then asking specific questions to identify the user's chosen fruit.
- Created a Flask-based RESTful API that communicates with the front end to handle game logic, process user input, and return predictions.
- Optimized query performance, reducing fruit identification time through indexed searches and efficient SQL queries.

UV Index Tracker and Sunscreen Recommendation System | *Python* — May 2025
- Designed and implemented a real-time UV index tracker that retrieves weather data using the OpenWeatherMap API.
- Integrated API calls using Python's requests library to fetch location-specific weather and UV index information.
- Optimized API response handling, reducing data retrieval time, ensuring faster and more accurate UV index updates.

TECHNICAL SKILLS AND TOOLS

Languages: C++, C, Assembly Languages (MIPS, ARM, x86), Python, SQL, JavaScript, HTML, CSS
Skills: Windows PowerShell, Visual Studio Code, Linux, Ubuntu, MariaDB, Object-Oriented Programming, Backend Development, Frontend Development, Data Structures and Algorithms, Database Development