Trevor Stauffer

A software developer with a background in physics and chemistry.

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Education

Penn State University   **2020**
Physics - Bachelors of Science

Code Academy   **2019 to 2024**
Certificates
- C#, JavaScript, SQL, HTML, Data Analysis, Machine Learning, Python 3

Core Competencies

Communication, Collaboration, Root Cause Analysis, Adaptation, Attention to Detail, Organization, Critical Thinking, Time Management, and Innovation

Technical Skills

Languages - C#, JavaScript, SQL, HTML, CSS, Python, C++, Java
Frameworks - .NET, Entity Framework, ASP.NET, .NET MAUI, React.js, jQuery
Technologies - Git, Docker, Visual Studio, Google Cloud, WebSockets, WASM, Android Studio, Apache
Other - OOP, Machine Learning, NLP, NumPy, SciPy, Scikit-Learn, MATLAB, Microcontrollers, Circuit Design

Personal Projects

Rideshare App   **2024**
C#, SQLite, ASP.NET, .NET MAUI, Entity Framework, Android, Apache, Websockets, Google Compute Engine, Google Routes, Google Places, Stripe, and Bcrypt
- A rideshare mobile app with rider and driver clients, served by a cloud based controller

Chess Engine   **2024**
Python, JavaScript, React.js, and HTML
- An engine and UI with varying degrees of difficulty; capable of defeating advanced players

Sudoku Solver   **2023**
Python
- Instantly solves any sudoku puzzle

Financial Tracker   **2022**
C#, SQLite, .NET, .NET MAUI, Google Cloud Buckets, and Android
- A Windows Forms and Android app for tracking and managing personal finances
- Data synced across devices via the cloud

Heliospatial Alarm Clock   **2019**
Java and Android
- An Android app for setting alarms based on the position of the sun in the sky
- Uses geofences; low-power background tasks

Coprime Algorithm   **2019**
Python and C++
- Optimized an algorithm to solve for all coprimes of n where $1 < n < 10^7$
- From $O(n^3)$ and several millennia, to $O(n \cdot log(log(n)))$ and under a minute to solve

Linkedin Profile

Github Profile