Zachary Bohl

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EDUCATION:

Southern Methodist University   `   *Present (Part-Time)*
Master of Science in Computer Science   Dallas, TX

RELEVANT COURSES: Operating Systems, Databases, Data Structures, Artificial Intelligence, Machine Learning, Graphics, Cloud Computing, English Composition, Communications, App Development, Object Oriented Software Design. UX/UI Design

SKILLS:

Languages: Go, C, C++, Python, Swift, JavaScript, Rust, React, PostgreSQL, SQL, HTML5, CSS, Assembly
Software: Git, CMS, XCode, Jupyter Lab, Visual Studio, Google Colab, Sublime Text, OpenAI API, Arduino IDE, UNIX Terminal, Windows PowerShell, Figma, Bubble.io, Microsoft Office, Microsoft Access, AWS
Operating Systems: MacOS, Windows, Linux, Ubuntu, Arch Linux, Kali Linux

WORK EXPERIENCE:

Part-time Wordpress Consultant, The Energy Council   *May 2024–Present*
- Instructed employees on utilizing Wordpress services
- Acted as Wordpress admin and implemented new web technologies

Web Developer and Consultant, Bat City Archery
- Developing and maintaining a website for a local nonprofit
- Providing consultation on tech and development best practices

PROJECTS [GitHub: https://github.com/zach1020]:

AI Projects
- Created an RSS Reader application in NextJS that uses OpenAI's API to summarize news articles in a separate panel so users can stay informed even faster at https://github.com/zach1020/ai-rss
- Created an AI application that predicts the prices of items in a popular video game using a sequential neural network trained on existing data at github.com/zach1020/RuneStonks
- Created an application that simulates a debate between two participants on any subject the user chooses using Python

Web Development, Design and Backend
- Developed frontend and backend and deployed a website to help Rustlang developers find jobs at https://www.rustdevfindjob.com
- Created my personal homepage used for freelancing at https://zachbohl.com using HTML, CSS and React JavaScript
- Created a local nonprofit's website for them: ReactJS (original), Google Pages (current), SquareSpace (future). https://batcityarchery.org

Embedded Projects and Beyond
- Created an operating system called CapybaraOS in C and x86 assembly. I also recreated it in Rust.
- Created a Chip-8 emulator that can play games and run other Chip-8 applications in C++ and x86 Assembly
- Created a *true* random number generator that uses IBM's Qiskit quantum computing API
- Hardware troubleshooting
- Hardware debugging
- BIOS
- Device drivers

CERTIFICATES:

UX/UI Design Certificate, University of Texas   *June 2021—January 2022*