

# Zachary Bohl

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## EDUCATION:

*Southern Methodist University*  
Master of Science in Computer Science

*Present (Part-Time)*  
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:** C, C++, Python, Swift, JavaScript, Rust, React, Go, 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, Omarchy

## WORK EXPERIENCE:

*Senior Web Developer, The Energy Council*

*May 2024–Present*

- Instructed employees on utilizing Wordpress services
- Acted as Wordpress admin and implemented new web technologies

*Senior Web Developer, Bat City Archery*

*May 2024–August 2025*

- 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](https://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*