

Spencer Bills

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Education

Cedarville University

Cedarville, OH

Bachelor of Science Computer Science; GPA: 3.30

May 2024

Honors: Dean's List; Chancellor's Excellence Scholarship; President's Ministry Impact Scholarship; Cedarville Excellence Scholarship; National Honors Society

Skills

Programming Languages

Rust • Python • C++ • TypeScript • Go • Dart • Kotlin • Java • JavaScript • PHP • C#

Technologies

Git • Docker • Linux • Angular • Firebase • MySQL • MariaDB • React • Vue.js • Svelte • Node.js • Google Cloud
MongoDB • Visual Studio Code • Vim • Android Studio • Flutter • Actix • Express • Gin • Diesel • Maven • Electron
GDB • LLDB • WordPress • Bash • ZeroMQ • UDP • TCP • PX4 • AWS

Professional Experience

Software Engineering Internship

Dayton, OH

Tangram Flex

May 2022–August 2022

- Adapted 3 disparate simulation and automation packages to communicate and execute complex flight missions.
- Connected a complex network of simulated embedded devices using Linux, Go, Rust, C++, UDP, and ZeroMQ.

Software Engineering Team Lead

Cedarville, OH

Cedarville University - Creative Solutions Group

August 2021–Present

- Developed a web application that reduced first-day check-in times for 1375 students from hours to minutes.
- Promoted to sole team leader and project manager for a team of 7 developers.
- Developed an embedded application that tracks event involvement for 4715 students in 80 events.

Software Engineering Internship

Centerville, OH

Smart Data Digital Solutions

May–August 2021

- Developed and deployed a report management web application for a financial agency.
- Adapted algorithms for complex data structures for frontend chart display.
- Delivered product under budget and 2 months before deadline.
- Created a full stack web application using C#, Microsoft SQL, and Angular.

Frontend Developer Internship

New Martinsville, WV

Prosrite Business Solutions

May–August 2019

- Developed and maintained a web-based form builder using JavaScript and HTML.
- Redesigned a JavaScript library to fit needs of a new online ordering system.
- Provided customer support and computer repair.

Personal Projects

Radical

December 2020–December 2021

<https://github.com/Rust-CMS/rust-cms>

Developed a modern, open-source alternative to PHP-based CMS software tools such as ProcessWire and Grav. Web application with a Rust backend, MySQL database, and Vue.js frontend that utilizes various technologies such as Docker, Actix, and Diesel.

Scheduler

November 2019–July 2020

Engineered a technology to aid in the creation of reference schedules for high schools and universities. Full stack web application with a Java backend, MySQL database, and Vue.js frontend utilizing Bootstrap 4. Successfully optimized 180 courses for over 400 students for the 2020 academic year.