Gabriel D. Coffland

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Education

Western Washington University

2017 - 2021

Bachelor's of Science in Computer Science Minors: Embedded Systems, Mathematics, Physics

Work Experience

Software Developer Engineer in Test — CSI Interfusion

2024 - Present

- Collaborated with hardware and software engineers on-site at Microsoft to migrate essential tools to relevant codebases, ensuring seamless integration and functionality.
- Designed and developed tools to automate performance testing and metric collection for handheld gaming devices, improving efficiency and reliability in system diagnosis.

.Net Developer — Allyis

2022 - 2024

- Contributing member of the development team overseeing Entra Connect, a system facilitating
 the synchronization of data between Azure tenants and on-premises Active Directories on
 Windows machines, written primarily in C#, C++ and Powershell.
- Collaborating with cross-functional teams, including product managers and fellow developers, to deliver top-tier software solutions.
- Building, debugging, and shipping software solutions for a clientele of 500,000+ users.
- Conducting comprehensive code reviews and consistently producing high-quality code aligned with best practices and coding standards.

Open Source Contributions

inetd — NetBSD Operating System

Updated, Refactored and added new features to the outdated super server inetd. New features include a configuration file syntax to allow for more verbose and flexible service definition, as well as ways of limiting incoming service requests on a per-service basis.

Projects

Standalone alarm system

Using a Cortex K65 microcontroller, designed and implemented an RTOS alarm system and required drivers that utilized touch sensors, keypad, speakers, and LEDs. Written in C, and ARM(Thumb-2) assembly.

DogBot

As a solo developer, created a custom Discord bot, leveraging third-party repositories to provide text based AI image generation and entertainment streaming for on-demand querying. Personally hosted on optimized hardware for a local community.

NullPointer

Personally designed, constructed, and maintained a high-availability Proxmox cluster for a community of 80+ users. Leveraged virtualization and containerization to host numerous client services, ensuring effective resource isolation and optimal performance. Additionally designed a stand-alone performance and metrics monitor using a Raspberry Pi microcontroller.

Additional Skills