Tyron Rieckmann

Software Engineer

https://tyrumus.dev tyrumus@gmail.com Phoenix, AZ

Skills

Web languages

- → TailwindCSS
- → Svelte/SvelteKit
- → Node.js/Koa
- → PHP
- → SQL
- → WebGL

System languages

- **→** C
- **→** C++
- → Rust
- → Java
- **→** C#
- → Python

Scripting languages

- → Bash
- → Batch
- → Lua

Misc software

- → Docker
- → AWS
- → MySQL
- → PostgreSQL
- → Redis
- → Kubernetes
- → Linux/Git

Education

B.S. Computer Science / ASU DECEMBER 2022

- → pwn.college pupil
- → Linux Users Group alumni

Experience

Software Engineer / Moog Inc.

2023-PRESENT

- → Designed custom QEMU device for FPGA and custom hardware simulation
- → Rewrote CPU silicon and ECC RAM initialization assembly routines, cutting boot time in half
- → Ported VxWorks drivers to Linux
- → Designed and implemented new Linux kernel modules
- → Adapted YAFFS to dramatically improve mount speed
- → Created unit and integration tests for SpaceWire hardware and drivers
- → Built CI pipeline for Debian and Yocto-based OS images
- → Leveraged Docker for reproducible build environments
- → Created computer vision demo for conferences

Manufacturing Technician / Intel Corp.

2018-2023

- → Collected, analyzed, and evaluated wafer defect data on TEL Clean Track Lithius i+ and Lithius Pro V -i platforms in the resist-coating portion of the lithography process
- → Trained new full-time employees and interns
- → Improved automated processing and analytics systems necessary for efficient day-to-day sustaining operations

AWS Infrastructure Engineering Consultant / GO AV

2020-2021

- → Advised company founder on optimal deployment solutions using Amazon Web Services (AWS).
- → Deployed numerous video conferencing relays and Windows Server instances, and networked them together for corporate customer livestreams
- → Created unattended installation Bash scripts for the company to use for additional future deployments

Full Stack Web Developer/ Self-employed

2017-2018

- → Rebuilt frontend and backend for online homework/quiz system
- → Redesigned MySQL database schema, significantly improving query speed
- → Numerous usability and security improvements

Projects

Homelab Server / Personal

2023-PRESENT

License Plate Ecommerce Website / ASU Capstone Group Project

2021-2022

Stack: Node.js, Koa, **PostgreSQL**, Caddy Server, TailwindCSS

- → Researched full stack
- → Designed PostgreSQL database schema
- → Designed and built REST API
- → Manually configured all server and security software on a bare Ubuntu Server instance

Meatup / ASU Project

2022

Stack: iOS/Xcode/Swift, Node.js, Koa, **PostgreSQL**, Caddy Server

- → Designed PostgreSQL database schema
- → Designed and built REST API
- → Created iOS app UI and logic