Zachary Loveless

Software Developer and IT/Systems Administrator

Contact: Zack (He/Him) – zack.loveless@live.com – https://zloveless.com – Yuma, AZ or Remote

SKILLS

- Languages: C#/.NET, SQL, Python 3, JavaScript, Java
- Tools: Ansible, Docker, Container orchestration (Docker Swarm / Compose)
- Operating systems: Windows, Debian, Fedora (familiar)
- Hypervisors: Proxmox (QEMU/KVM), VirtualBox (Windows)
- Databases: MySQL/MariaDB
- Other: LDAP, Open ID Connect Authentication, RBAC for services, Basic networking

WORK EXPERIENCE

Computer Lab Aide Arizona Western College (Yuma, AZ) August 2008 – June 2023

- Delivered direct IT support (Tier 1) to lab visitors needing help with applications and printing.
- Empower visitors with computer knowledge to get what they need done.
- Perform basic troubleshooting on lab gear and escalate when necessary.

Web Developer (Contract) S2 Systems (acquired by Cloudflare, Inc.) March 2019 – October 2019

- Collaborated with web designer to match vision design intent for branding.
- Overhauled CSS development process to use reusable SCSS snippets.
- Deployed serverless C#/.NET Core logging application to AWS Lambda.
- Maintained a multitenant website project in ASP.NET Core with senior developer.

Volunteer Systems Administrator Totem Arts July 2020 – present

- Deploy and write infrastructure-as-code (IaC) for hosting all related game services.
- Innovate and implement an orchestration strategy for coordinating game services as cost-effective as possible.
- Establish quality control processes for infrastructure-as-code through use of pull request reviews.
- Assess needs of team members for continuous updates to team processes.

EDUCATION

Bachelor of Applied Science, Northern Arizona University, Yuma, AZ December 2021

SOFT SKILLS

- Good written and verbal communication.
- Teamwork and collaboration for making progress on and establishing team and company goals.
- Leadership and organization for collaborating with team members.
- Problem solving and strong learning/intuition sense.

AWARDS

- Dean's List for academic years 2020 and 2021 at Northern Arizona University
- Eagle Scout, Boy Scouts of America: Ocotillo District, Yuma, AZ, March 2007

PORTFOLIO

Home Lab / Self-Hosting   2010 – present   Mixed privacy

- **Technologies**: Ansible, Docker, Apache/Nginx, MySQL/MariaDB, PHP, Proxmox
- **Sources**:
    - https://github.com/zloveless/ansible-common
    - https://github.com/zloveless/ansible-containers

I use my home lab combined with a VPS to keep my IT skills sharp and to try out new technologies. As of 2023, the home lab hosts network-level (DNS-based) adblocking, a media server, and a virtual machine from which to deploy infrastructure for Totem Arts and my own home lab. On my VPS, I primarily host a few websites, including a friend's blog and a couple download index websites for a video game franchise and tabletop gaming needs.

Atlantis IRC Library   2013 - 2020   Open Source

- **Technologies**: C#/.NET (Framework 3.5+, later using Standard 1.4+)
- **Source**: https://github.com/zloveless/Atlantis

The IRC library began as a way to replace an IRC bot which I wrote using mIRC Script. It gave me a foundation of programming with threads, sockets, and thread safety. I had the benefit of a mentor during the bulk of this library's lifespan, who taught me the aforementioned computer science knowledge. The core of the library primarily revolves around clients as opposed to servers due to never really having time to work out a convenient service interface.

C&C Renegade Scripting   2005 - 2014   Mixed privacy

- **Technologies**: C/C++, Visual C++ 2008-2015

My experience involved making custom server-side mods to make various community servers I involved myself in unique. Mods that I worked on included the areas of server-side co-op, art of defense, and server moderation. My main takeaway from the experiences gained include an appreciation for debugging techniques and creative thinking to make something work.

RxCmd   2014   Open Source

- **Technologies**: C#/.NET (Framework), Managed Extensibility Framework (MEF)
- **Source**: https://github.com/zloveless/RxCmd

RxCmd is a command-line utility that interacts with a Renegade X game server's RCON-like (remote console) interface. The team behind Renegade X developed a rudimentary remote console interface for moderating game servers, so to learn it, I wrote a console app that let you connect to an instance of a game server, subscribe to logs, and add bots. The structure was modular, allowing commands to be loaded at startup and executed.

S2 Corporate Websites   2020   Closed Source

- **Technologies**: Docker, C#/.NET, HTML, CSS/SASS, JavaScript, Open ID Connect / OAuth2, Amazon Web Services (AWS), Agile experience, Azure DevOps, Git

I learned that adding complexity in software unnecessarily is terrible. In reality, the solution is somewhere between dead simple and overly complex with a slight edge given towards dead simple. This strategy is important to learn because a product may have too much in its backlog.