

# Roger Waggoner

Full-Stack Developer | Linux / DevOps  
Greensburg, PA (Open to Remote)

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[hk47196.github.io](https://hk47196.github.io)  
[github.com/HK47196](https://github.com/HK47196)

## PROFESSIONAL SUMMARY

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Full-stack developer focused on TypeScript/React and Node.js/Express with strong PHP experience and a Linux systems administration background. Comfortable owning features end-to-end: API design, database-backed services, UI work, deployments, and production operations.

## TECHNICAL SKILLS

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<b>Languages</b>	TypeScript, JavaScript, PHP, C/C++, C#
<b>Frontend</b>	React, HTML5, CSS3, responsive UI
<b>Backend</b>	Node.js, Express, REST APIs, PostgreSQL, database design
<b>Infrastructure</b>	Linux administration, Docker, Git, CI/CD, monitoring, automated backups

## PROFESSIONAL EXPERIENCE

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**Full-Stack Developer & Systems Administrator** **2023–Present**  
*Independent / Contract*

- Architect and operate a production web platform; deliver features across the stack (TypeScript/React UI and custom PHP modules).
- Implement automated backup, monitoring, and deployment workflows; maintain reliable releases through CI/CD.
- Administer Linux systems and developer tooling (Git, containerized services) to support ongoing development and operations.

**Quality Assurance Engineer (Contract)** **Jun 2022–Aug 2023**  
*Artificer Studios*

- Performed comprehensive testing for unreleased games.

## SELECTED PROJECTS

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- **URL Shortener** — TypeScript/Express/React/PostgreSQL service with URL revocation, domain blacklist, and click analytics. Includes automated tests (vitest) and a Docker Compose setup.
- **MicroRules** — A tiny expression DSL for C# that parses and compiles expressions into executable functions at runtime; includes examples, benchmarks, and tests.
- **OMF Parser** — Python parser/dumper for Relocatable Object Module Format (OMF) files based on the TIS specification; aims for standards compliance.

## EDUCATION

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**University of Pittsburgh** — Bachelor of Computer Science 2015–2017  
**Community College of Westmoreland County** — Associate of Science 2012–2014

Portfolio writing and technical notes available at [hk47196.github.io](https://hk47196.github.io) (reverse engineering, Ghidra, and systems topics).