Joseph Kerkhof

☐ +1 920 376 1248 | @ joseph@kerkhof.dev | ⦿ GitHub | ⦿ Portfolio | ⦿ New London, WI

SUMMARY

An experienced, back-end software engineer developing pragmatic solutions collaboratively on cross-functional teams. I build solutions that effectively minimize technical debt, and consistently deliver high-quality code and maintainable software systems at scale.

EDUCATION

University of Wisconsin — Oshkosh   Oshkosh, WI

M.Sc. in Data Science; ***GPA: 4.00/4.00***   *Sept 2017 – Jun 2021*

B.Sc. in Computer Science   *Sept 2011 – Jun 2016*

WORK EXPERIENCE

Teamworks   Remote, USA

Senior Software Engineer   *May 2024 – Sept 2025*

- Architected and developed the GM product from ground up using Laravel, delivering budget and position management tools in 3 months with 90% test coverage and daily production deployments via CI/CD pipelines.
- Delivered integrated payments to GM within 8 months meeting the aggressive NCAA's July 2025 regulatory deadline using modern software architectural patterns like Domain Driven Design, CQRS, and the Action Design Pattern adhering to SOLID principles.
- Engineered a high-performance RESTful API achieving sub-second response times through optimized database queries and asynchronous processing with Redis queues, implementing comprehensive observability via structured logging, distributed tracing, and StatsD metrics.

Prodege   Remote, USA

PHP Developer   *Mar 2023 – May 2024*

- Developed automated campaign management tools using Google Ads SDK, reducing campaign launch time by 90% and preventing $20K-$30K monthly wastage through real-time spend optimization.
- Refactored and upgraded PHP cron jobs and their dependencies leveraging modern Laravel and external APIs resulting in improved reliability to critical business functions.
- Streamlined MySQL queries and table design for large datasets (tables in the hundreds of GBs), resulting in enhanced performance and efficiency.

Clockwork   Minneapolis, MN

Senior Software Engineer   *Mar 2019 – Mar 2023*

- Led the development and deployment of new web products using React, Typescript, and Jest unit tests as team scrum master.
- Load-tested a high-performance website to find bottlenecks in the application and infrastructure layers and remediate them with horizontal scaling.
- Maintained a high-volumne promotion engine powering >350K customer accounts with thousands of daily transactions using PHP and MySQL.

PROJECTS

GitHub RSS | *GitHub*

- A sophisticated RSS feed generator for tracking GitHub repository activity, designed to demonstrate modern software engineering practices and architectural patterns.

Path-finding AI | *GitHub*

- A Java project using a genetic algorithm for dots to find their way from a starting point to a target without explicit instructions.

Skills

Languages: PHP, JavaScript, TypeScript, Java, SQL, Bash/Shell

Frameworks & Libraries: Laravel, React, PHPUnit, Pest, Jest

Databases: MySQL, Redis, SQLite

Cloud & Infrastructure: AWS, Linux

Methodologies: CI/CD, Domain Driven Design, Action Pattern, CQRS, SOLID principles, Agile/Scrum