Joseph Kerkhof

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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*
- Scaffolded the new GM product with Laravel, delivering budget and position management tools in 3 months using CI/CD for multiple deployments to production every day.
- Delivered integrated payments to GM within 8 months meeting the aggressive NCAA's July 2025 regulatory deadline.
- Built a high-performance API with sub-second response times and comprehensive observability with structured logs, distributed tracing, and statsd metrics.

Prodege   Remote, USA
PHP Developer   *Mar 2023 – May 2024*
- Created new tools using the Google Ads SDK to significantly accelerate the launch of new PPC campaigns, making the process 10 times faster and saved $20K — $30K in unproductive spend per month.
- 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.
- Maintained a promotion engine powering >350K customer accounts with thousands of daily interactions using PHP.

PROJECTS

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.

SHA-256 Password Hacker | *GitHub*
- A fun project to brute-force an 8 character password with 62 possibilities for each character making for about 98 septendecillion combinations.

SKILLS

Programming: PHP, JavaScript, TypeScript, MySQL, Shell
Technologies: Git, Linux, AWS
Frameworks: Laravel
Developer Tools: DataDog, GitLab, Jetbrains