Joseph Kerkhof

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SUMMARY

An experienced, full-stack software engineer developing pragmatic solutions collaboratively on cross-functional teams. Equipped with a keen ability to build solutions that effectively minimize technical debt, consistently delivering high-quality code and maintainable software systems.

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*

Oshkosh West High School   Oshkosh, WI
High School Diploma   *Sept 2009 – Jun 2011*

WORK EXPERIENCE

Prodege   Remote, USA
PHP Developer   *Mar 2023 – Current*
- Created new tools using the Google Ads SDK to significantly accelerate the launch of new PPC campaigns, making the process 10 times faster.
- Created cron jobs to automatically enable or disable PPC campaigns which saved $20K — $30K in unproductive spend.
- 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.
- Develop cloud-native apps on AWS using modern tools like Rust, TypeScript.
- Developed software maintenance plans and automation tools to sustainably and regularly reduce technology debt and automate repetitive, time-consuming tasks.
- Load-tested a high-performance website to find bottlenecks in the application and infrastructure layers and remediate them.
- Maintained a proprietary promotion engine powering >350K customer accounts with thousands of daily interactions using PHP.

University of Wisconsin — Oshkosh   Oshkosh, WI
Web Developer   *May 2016 – Mar 2019*
- Championed a migration of disparate Plone websites to a standardized WordPress Multisite on AWS.
- Led a team of 15 Computer Science student developers in design, programming, and standardization of MVC web-based applications using the .NET framework.

AFFILIATIONS & VOLUNTEERING

Thorn Data Science Hackathon *(2019)*: Created tools for CSAM detection using natural language processing libraries.

Judge at Minnesota Technovation *(2019)*: Technovation is a global tech education non-profit that inspires girls to be leaders and problem solvers in their community.

Campus Web Council of Wisconsin *(2016 — 2019)*

Projects

NFL Lineup Optimizer | *GitHub*
- A Laravel project that allows you to sign up for an account, enter the players on your fantasy football team, and recommend the optimal lineup week-to-week.

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, Rust, JavaScript, TypeScript, MySQL, Shell

Technologies: Git, Linux, AWS

Frameworks: Laravel, React

Libraries: Tailwind, Bootstrap, Jest, jQuery