

# Joseph Kerkhof

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## SUMMARY

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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

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### University of Wisconsin — Oshkosh

*M.Sc. in Data Science; GPA: 4.00/4.00*

*B.Sc. in Computer Science*

Oshkosh, WI

*Sept 2017 – Jun 2021*

*Sept 2011 – Jun 2016*

### Oshkosh West High School

*High School Diploma*

Oshkosh, WI

*Sept 2009 – Jun 2011*

## WORK EXPERIENCE

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### Prodege

*PHP Developer*

Remote, USA

*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

*Senior Software Engineer*

Minneapolis, MN

*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

*Web Developer*

Oshkosh, WI

*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

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**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

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### **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

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**Programming:** PHP, Rust, JavaScript, TypeScript, MySQL, Shell

**Technologies:** Git, Linux, AWS

**Frameworks:** Laravel, React

**Libraries:** Tailwind, Bootstrap, Jest, jQuery