Joseph Kerkhof

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SUMMARY

A full-stack software engineer with extensive experience in developing practical, appropriately scaled solutions within collaborative, diverse 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*

- Refactored and upgraded PHP cron jobs and their dependencies leveraging modern Laravel and external APIs resulting in improved reliability to critical business functions.
- Implemented the Google Ads SDK for internal tools, streamlining the process of creating campaigns, ad groups, keywords, and ads, resulting in a significant reduction in workflow friction.
- Streamlined MySQL queries and improved 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

Filters and Fractals | *GitHub*

- A C project which implements a variety of image processing operations that manipulate the size, filter, brightness, contrast, saturation, and other properties of PPM images from scratch.
- Added recursive fractal generation functions to model popular fractals including Mandelbrot set, Julia set, Koch curve, Barnsley fern, and Sierpinski triangle in PPM format.

Skills

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

Technologies: Git, Linux, AWS

Frameworks: Laravel, React, Jest, Tailwind, Bootstrap