

Jakob Olechiw

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EDUCATION

University of Michigan, Ann Arbor, MI

Bachelor of Science Computer Science

Relevant Coursework: Data Structures and Algorithms, Foundations of Computer Science

April 2023

3.67/4.0 GPA

EXPERIENCE

Morningstar Inc., Chicago, IL

Software Engineer Intern

June 2021 - August 2021

Intrepid Control Systems, Troy, MI

Web Development Intern

January 2021 - May 2021

- Designed prototypes for dynamic in-browser editor product, and found a drop-in solution saving over a months worth of potential development effort.
- Delivered service for management of containers in a scalable environment, allowing other services to run jobs and other containerized systems with ease.
- Responsible for project management and planning - designated time estimates for deliverables according to company goals and needs.

TechSmith Corporation, Okemos, MI

Software Engineer Intern

May 2020 - December 2020

- Created an internal API dashboard for QA and developers, resulting in significant increases in productivity when testing access control of TechSmith products.
- Architected new routes to TechSmith's notification service, facilitating completion of new "feeds" feature and guaranteeing cleanup of excess data.
- Polished modern React frontend according to customer requirements, and worked with UX specialists improving usability and accessibility.
- Updated core services' authorization, permitting other teams at TechSmith to modernize strategies when connecting to cloud services.

Blue Heron Pond AFC, South Lyon, MI

Independent Web Contractor

July 2019 - May 2020

- Consolidated client features and technical requirements to produce a search engine for Adult Foster Care Homes.
- Integrated ecommerce capabilities empowering site monetization with premium features for paid home listings.
- Queried public State of Michigan data, enabling core site functions according to customer requirements.
- Constructed accessible and mobile-responsive frontend to ensure site was usable on all devices, and managed fine-tuning of UI to meet customer goals.

CAEN Web Team, Ann Arbor, MI

Web Applications Developer

June 2019 - May 2020

- Took initiative in changing flawed SQL queries and proposed solution to lessen future developer workload. Managed project to complete the refactor, allowed for significant increases in efficiency and testing potential.
- Constructed unit and integration tests for Flask applications, assuring successful migration to Python 3 and modernization of CAEN services.
- Proposed and implemented new features for web applications in Flask, going beyond product owner requirements to deliver quality improvements.

TECHNOLOGY COMMUNITY IMPACT

Bountiful Harvest Food Pantry Worked on an volunteer basis developing an open source set of software applications for a food pantry in Brighton, MI, having now served over 15,000 visits by over 2,000 distinct families.

Saved hours of manual labor each week by automating report generation, provided custom statistics and insights for community outreach, and assured visitor qualifications with persistent patron database and duplicate detection.

SKILLS

Programming Languages: C/C++ , Java, Python, Javascript, Typescript, HTML/CSS, SQL, PHP

Developer Tools: Visual Studio, Visual Studio Code, Vim, Git, Docker, Eclipse, Azure Devops

Frameworks and Technologies: .NET, React, Entity Framework, ASP.NET, AWS, Azure Cloud, Express, Node