

# Jakob Olechiw

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## EDUCATION

**University of Michigan, Ann Arbor, MI**

April 2023

*Bachelor of Science Computer Science*

3.93/4.0 GPA

Relevant Coursework: Programming and Intro Data Structures, Data Structures and Algorithms, Discrete Math

## EXPERIENCE

**TechSmith Corporation, Okemos, MI**

May 2020 - Present

*Software Engineer Intern*

- Worked as a full stack developer on a Scaled Agile team to assist in design, implementation, and maintenance of enterprise cloud products. Participated in Scrum standups, Safe planning meetings, code review, paired programming, and other collaborative processes.
- Developed modern frontend applications in Typescript/React such as adding new responsive mobile navigation to existing products, and maintained existing legacy frontend codebases in AngularJS
- Engineered application backends in C# using .NET Core. Proposed, architected, and tested new additions to REST APIs, including HTTP Integration tests and Unit tests utilizing dependency injection patterns. Created new functionality in backend page rendering with Razor markup.
- Designed an internal dashboard using Typescript/React and C# .NET during innovation/planning time, interacting with TechSmith's entitlements API to provide trials to products for use by QA and Software engineers.
- Configured and deployed Azure service applications using Github and Azure Devops Continuous Integration. Utilized Azure Service Bus messaging queues in new application features.
- Worked with Azure tablestore and SQL in .NET Core, facilitated database migrations with Entity Framework.
- Created authorization strategies and requirements to establish trust between .NET Web Services.

**Blue Heron Pond AFC, South Lyon, MI**

July 2019 - May 2020

*Independent Web Contractor*

- Solely responsible for the creation of an Adult Foster Care search engine. Developed backend using PHP and Wordpress REST API, and a responsive, mobile-friendly frontend using Bootstrap, JQuery, and Javascript/HTML/CSS.
- Consolidated State Government licensing REST APIs into MySQL with scripts in Python and custom PHP dashboard
- Designed interactive and cross-platform map of Michigan Counties rendered as SVG and styled with CSS
- Architected and wrote REST APIs as backend of website in PHP, querying MySQL, joining necessary tables together, or executing fulltext searches to serve search results. Developed frontend search interface with lazy loading in JS
- Administered Amazon Web Services Linux EC2 instance and RDS, worked through SSH to deploy website.

**CAEN Web Team, Ann Arbor, MI**

June 2019 - May 2020

*Web Applications Developer*

- Designed and debugged unit and integration tests for Flask applications using Capybara and Selenium.
- Proposed, tested, and implemented new features for web applications in Flask, using a full stack including Python backend with Jinja2 templating engine, and Javascript/HTML frontend.
- Facilitated migration to Python 3 for several Flask applications, including introduction of new Unit Tests.
- Refactored MySQL and SqlLite queries in Python 3, allowing for significant increases in efficiency and testing potential.

## PROJECT EXPERIENCE

**Java, Android Studio, Gradle** Two years of developing Android applications for robotics, including experience tethering devices with bluetooth to transfer data. Used Java to develop system of three android apps that a robotics team of 60 people rely on every year to record data.

**C#, Transact-SQL, PowerQuery** Worked on an volunteer basis to create an entire software stack for Bountiful Harvest Food Pantry. Two desktop applications developed in C#, connecting to a remote Microsoft SQL Server. Engineered reporting system using Microsoft Excel and PowerQuery (M), and generated complex reports according to Federal standards.

## COMPUTER SKILLS

### Languages

C/C++

C#

Java

Python

Javascript

Typescript

Razor

PHP

HTML/CSS

SQL

PowerQuery (M)

### IDEs

Visual Studio

Visual Studio Code

IntelliJ

Eclipse

Vim

DataGrip

### Technologies

Git

.NET Core

ASP.NET

React

SSH

Azure Devops

Firebase

Flask

Bash

WinForms

LINQ

Android

AWS

Azure Cloud

Bootstrap

JQuery

Entity Framework

AngularJS