Jakob Olechiw

jolechiw@umich.edu · www.github.com/olechiw · (248) 437-6976 · 30520 Martindale Road · New Hudson, MI 48165

EDUCATION

University of Michigan, Ann Arbor, MI April 2023
Bachelor of Science Computer Science 3.67/4.0 GPA
Relevant Coursework: Data Structures and Algorithms, Foundations of Computer Science

EXPERIENCE

Morningstar Inc., Chicago, IL — June 2021 - August 2021
Software Engineer Intern

Intrepid Control Systems, Troy, MI — January 2021 - May 2021
Web Development Intern
- Proposed and architected new routes web for services using NodeJS, Express and Typescript
- Implemented unit and integration testing solutions using Mocha.
- Planned, secured, and delivered service for management of Docker containers in a scalable environment.
- Created prototypes for dynamic in-browser editor in React and Typescript.
- Planned and completed full stack deliverables to contribute to company milestones

TechSmith Corporation, Okemos, MI — May 2020 - December 2020
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.
- Developed modern frontend applications in Typescript/React, added new responsive mobile navigation to products, and maintained existing legacy frontend codebases in AngularJS
- Engineered application backends in C# with .NET Core. Proposed, architected, and tested new additions to REST APIs, including integration tests and unit tests utilizing dependency injection patterns.
- Delivered an internal dashboard project, interacting with TechSmith's APIs for use by QA and Software engineers.
- Configured and deployed Azure service applications using Github and Azure Devops.
- Designed new database schemas and facilitated database migrations with Entity Framework.
- Created authorization strategies and requirements to establish trust between web services.

Blue Heron Pond AFC, South Lyon, MI — July 2019 - May 2020
Independent Web Contractor
- Responsible for the creation of an Adult Foster Care search engine.
- Developed Wordpress backend and responsive, mobile-friendly frontend.
- Administered Amazon Web Services server and database, worked through SSH to deploy website.
- Consolidated State Government licensing data into SQL database with automated scripts and a custom dashboard.
- Designed interactive and cross-platform map of Michigan for site navigation.
- Architected and implemented REST APIs as backend of website in PHP.
- Developed frontend search interface with lazy loading in JS

CAEN Web Team, Ann Arbor, MI — June 2019 - May 2020
Web Applications Developer
- Constructed and debugged unit and integration tests for Flask applications using Capybara and Selenium.
- Refactored MySql and SqlLite queries in Python 3, allowing for significant increases in efficiency and testing potential.
- 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.

PROJECT EXPERIENCE

C#, SQL 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 SQL Server. Engineered reporting system using Microsoft Excel, and generated complex reports according to Federal standards.

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