

# MITCHELL FENNER

## ABOUT

- Finishing my second bachelors degree in computer science.
- While completing my last course at night, I am available for full time employment.

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## EXPERIENCE

### DevOps Intern

#### Tyler Technologies

May 2020 – Dec 2020 Troy, MI

- Used Azure Pipelines and Jenkins to maintain CI/CD builds for 5 different .NET applications written in C# and Visual Basic.
- Created, configured, and tested more than 10 new build environments using VMWare vSphere.
- Used npm to maintain CI/CD builds for Node.js applications.
- Collaborated using SCRUM and Jira on an agile team.

### Maintenance Worker

#### Superior Measuring LLC

Jan 2019 – May 2020 Madison Heights, MI

- Worked part time while in school. Cleaned, organized, painted.

### Research Assistant

#### Wayne State University Medical School

June 2017 – Jan 2019 Detroit, MI

- Used viral gene therapy to research vision restoration by channelrhodopsins. Conducted micro-dissection of retinæ, behavioral testing, and retinal examinations.
- Setup laboratory computer systems and software. Collated results for publication.

## EDUCATION

### Bachelors of Science in Computer Science

#### Wayne State University

Sept 2018 – Expected May 2021

Overall GPA: 3.53 – Major GPA: 3.61

### Bachelors of Science in Microbiology

#### University of Michigan Dearborn

Sept 2013 – May 2017

Overall GPA: 3.61

## PROJECTS

### Interface for Crossref Event Data

- Full stack web app which visualizes how and where scientific papers are discussed.
- I wrote Python scripts to collect and move thousands of JSON objects from Crossref's REST API into our database.
- I was the chief architect of the Flask backend and created the frontend charts with JavaScript and C3.
- As the team lead I organized team meetings and led sprint retrospectives.

### Personal Website

- Displays my links and portfolio.
- Built with React and automated with GitHub Actions CI/CD.
- Developing a backend using ASP.Net Core and testing deployment as a Docker container.

### QEMU/KVM Home Server

- Built my home server on an Arch Linux host. Runs VMs for pfSense and Windows.
- I configured VFIO to pass hardware to the VMs, samba to serve files, and Grafana for monitoring.

### EVE Online Price Checker

- Dockerized TypeScript app which uses a REST API to determine the best priced ores in EVE Online.

## LANGUAGES

Python, Java

HTML, JavaScript, CSS

C++, PowerShell, Typescript

VBA



## TOOLS I KNOW

Git • Docker • Azure Pipelines • Azure App Service • Flask • React • Node.js • Linux REST API's • Jira • Confluence

## PUBLICATIONS

- [1] Improved CoChR Variants Restore Visual Acuity and Contrast Sensitivity in a Mouse Model of Blindness under Ambient Light Conditions  
*Molecular Therapy* 2019
- [2] Patterns of Change in Metabolic Capabilities of Sediment Microbial Communities in River and Lake Ecosystems  
*International Journal of Microbiology* 2018