

# Kamren Zirger

## Computer Science & Engineering Student



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## Education

### The Ohio State University, Columbus, Ohio

B.S. Computer Science and Engineering, Artificial Intelligence Specialization

3.77 GPA

August 2018 - Expected Graduation: May 2022

**Achievements:** Dean's List all semesters, Land Grant Opportunity Scholar, University Honors

**Activities:** Ohio State University Marching Band (Sousaphone), AI Club, Athletic Band

## Experience

### IBM / Back End Developer Intern

May - August 2021 Rochester, Minnesota (Remote Work)

- Developed components for new user-facing feature within DB2 for the IBM i Operating System
- Achieved proficiency in IBM's PL/X programming language to implement project functionality
- Contributed to program design discussions and decisions, solved challenges using debugging analysis

### Greif, Inc. / IT Service Desk Intern

May 2020 - May 2021 Delaware, Ohio (Remote Work)

- Led development of customer-facing mobile app for product pickup scheduling built on React Native
- Assisted development of REST API built on Express.js and internal colleague dashboard built on React
- Planned sitemap and created interactive wireframe for internal dashboard application using Adobe XD
- Facilitated colleague self-service and ticket submission via GUI using Power Apps and Automate

### AgCredit / IMD Intern

May - August, 2019 Fostoria, Ohio

- Upgraded/maintained office tech/infrastructure and responded to help desk tickets across 16 locations
- Programmed desktop setup batch script and Excel VBA macros to manage planned project schedule

## Projects

### FEH Robot Project

January - April 2019, The Ohio State University

- Formed team to prototype, fabricate, and program robot for FEH robotics course competition
- Employed C++, QTCreator, SolidWorks to program FEH microcontroller and design robot components
- Advanced to round of 16, completed several perfect course runs, and awarded 1st Place in Innovation

### FEH Game Creation

December 2018, The Ohio State University

- Partnered to develop an OSU v. Mich themed game on FEH microcontroller using C++
- Awarded bonus points for game functionality and presentation, including edited video advertisement

### Marching Band Drill Generator

June 2021 - Present, Personal

- Created web app to generate example marching band drill instructions in OSUMB marching style
- Initialized local Angular environment for development using CLI and Git/GitHub for version control

### Driveway Alarm Controller

December 2019 - Present, Personal

- Developed Python script on Raspberry Pi to monitor status of household driveway occupancy
- Interfaced with vehicle detection loop and audible alarm using GPIO header and external relay board
- Implemented SMS notifications to alert on vehicle entrance or exit of driveway

## Skills

JavaScript

TypeScript

React (+ Native)

Angular

Python

Ruby (+ Rails)

Java

C/C++

MATLAB

SQL

Git / SVN

Linux

Unit Testing

Power Automate

Power Apps

Adobe XD

Excel VBA

Batch Scripting

SolidWorks CAD

Microsoft Office

Microsoft Visio

Technical

Communication

## Hobbies

PC Maintenance

Troubleshooting

Guitar

Sousaphone

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## References

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