Jacob McCann

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GitHub: https://jmccann2000.github.io

EDUCATION:
The Ohio State University, Columbus, Ohio
Bachelor of Science in Computer Science Engineering
Expected Graduation: Spring 2023
Major Specific GPA (4.00 Scale): 3.53

SKILLS:
- **Programming Languages**: C#, Java, Python, Ruby, VisualBasic, JavaScript, C, HTML
- **Software Experience**: Git, REST, WebSockets, SOAP, DotNet, Rails, Unit testing
- **Design Patterns**: MVC, Strategy, Provider Pattern, Composition over inheritance
- **Operating Systems**: Windows, Linux
- **Relevant Coursework**: Fundamentals of Component Driven Development, Algorithm Analysis, Technical Communication, Fundamentals of Networking, Web App Group Development

ENGINEERING PROJECTS:
Sage ERP Integration (October 2021 - August 2022)：
- Used strategy pattern to allow users to read and write bill of material data stored in Sage X3.
- Implemented various providers that managed product, component and routing data. Created abstractions making Sage version or API changes require minimum modifications.
- The integration is currently being sold to CADTalk customers.

Plant Habitability Simulation (February - May 2020)**:**
- For a biogeography class, I had to choose a semester project that showed I had an understanding of some topic relating to the class. I chose the locations of plants based on environmental factors.
- Developed simulation of plant growth based on environmental factors on a synthetic island, written in **Python** using **MatPlotLib**, **Pandas**, and **GeoPandas**.
- Program generated maps of plant habitability based on the plant's optimal temperature and moisture and showed how the plant would grow based on where the first plant started

WORK EXPERIENCE:
CADTalk - Junior Developer (May 2021 - Current)
- Developed integrations allowing for CAD softwares to directly send information to ERP systems.
- Completed work items, tested my solutions and defended or altered those solutions through code reviews.