Madison Penix

madison.penix21@gmail.com | 567-259-8715 linkedin.com/in/madison-penix | Columbus, OH | Remote/Hybrid-Ready

Technical Skills

Languages: Java, Python, JavaScript, HTML, CSS, Ruby, Kotlin Frameworks/Libraries: Spring Boot, Flask, React, Bootstrap

Tools & Platforms: Git, Docker, GitHub, VS Code

Database & APIs: PostgreSQL, MySQL, REST APIs, Elasticsearch, JSON, XML Concepts: Object-Oriented Programming, Agile, Functional Programming

Projects

BeautyInQuest - Web Application

- Backend Developer | Flask + React + Elasticsearch
- Built a RESTful Flask backend for searching makeup products via Elasticsearch.
- Developed API endpoints and managed Docker containerization for multi-service deployment.
- Collaborated with a front-end developer to create a seamless user experience.

Super Mario Bros Remake with Level Creator

- Agile Team Project | Python + JSON/XML
- Recreated core mechanics of Super Mario with a custom level builder.
- Implemented collision detection using spatial hash maps and bounding boxes.
- Designed save/load functionality using JSON and XML, and followed Agile workflows with daily standups.

Trial Presentation Platform

- Frontend Developer | HTML + CSS + JavaScript + Bootstrap
- Designed interactive and responsive pages for a legal tech client.
- Enhanced UX by building modular components and applying Bootstrap for layout.
- Integrated dynamic features like slide transitions and document previews.

Education

The Ohio State University

B.S. in Computer Science and Engineering — Dec 2024

GPA: 3.336 | Dean's List | Humanitarian Engineering Scholars Program

Strengths

- Passion for clean, maintainable code
- Fast learner with a proactive attitude