Isaiah Sherfick

Software Engineer

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Education

Indiana University:

Degrees:	Computer Science MS + BS
GPA:	3.662
Graduation:	6 May 2022
Undergraduate specialization:	Software Engineering
Minor:	Music Studies
Dean's List:	Spring 2020, Fall 2020

Relevant coursework: Software Engineering , Object-Oriented Software Design, Applied Algorithms, Operating Systems, Distributed Systems, Networks, Data Structures, Computer Structures, Databases

Relevant Work Experience

Indiana University:

Undergraduate Instructor (2019 - 2021)

Reference: Senior Lecturer Jeff Whitmer - jwhitmer@iu.edu | 812-855-3974
 ➢ Graded and held office hours for C&Unix, SQL, Visual C#/.NET, and Android App development courses
 ➢ Worked face to face and virtually with students to facilitate learning and explain difficult concepts

Assistant Instructor (2021 -)
 ➢ Grading and holding office hours for C&Unix and visual C#/.NET application dev as a grad student
 ➢ Hosting lectures and teaching class when the instructor can't attend

Projects

Refactored Game Maker: https://github.com/isaiahsherfick/RefactoredGameMaker
 ➢ Refactored a completely unusable project from another team into a working game maker
 ➢ Enabled the user to create simple versions of Pac-Man, Space Invaders, Frogger, and Donkey Kong
 ➢ Utilized MVC architecture as well as Observer, Command, Strategy, and Composite design patterns

Saveable Undoable Breakout: https://github.com/isaiahsherfick/P532SaveableUndoableBreakout
 ➢ Collaborated with a team to add functionality to a previous week's project, an Arari Breakout clone
 ➢ Developed save/load functionality using JSON and the composite pattern

Roadmappr: https://github.com/isaiahsherfick/P465-565Group11
 ➢ Hosted daily standup Zoom meetings, utilized Jira board for development, weekly customer meetings
 ➢ Utilized full stack of NodeJS, Python Flask, and PostgreSQL hosted on Heroku
 ➢ Integrated many external APIs for hotels, flights, maps, etc.

Technical Skills

Programming Languages: Java, Python, C, Javascript, SQL, ARM Assembly, R, C#, C++

Tools: Jira, Git, Confluence, bash, ssh, Vim, Eclipse, IntelliJ, PyCharm, Slack, Zoom, Photoshop

Platforms: Linux, Windows, MacOS, Heroku, Github Pages, Embedded Systems