ADAM KASUMOVIC

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EDUCATION

Michigan State University (MSU)   May 2023

Bachelor of Science in Computer Science, College of Engineering
- Minor in Mathematics, College of Natural Science
- Minor in Game Design, College of Communication Arts and Sciences
- Four-year Honors College member

GPA: 4.0

WORK EXPERIENCE

Application Developer Intern, IBM, Lansing, MI   May 2022 - Aug 2022
- Swiftly developed a working knowledge of the COBOL and JCL programming languages in order to perform work on IBM mainframes under a z/OS environment, accumulating over 170 hours of learning time and six IBM digital credentials.
- Used advanced Python skills to develop a program that automated the conversion of client JSON RESTful APIs to Swagger documentation, which could then be processed into COBOL copybooks that were ultimately consumed by mainframes, saving the client countless hours of time.
- Applied previous Linux/Unix command-line and shell-scripting knowledge to successfully implement a working virtual mainframe on my personal machine running z/OS.
- Developed a gaming Proof-Of-Concept to demonstrate the use of IBM Cloud services for running game servers by creating a Docker image (adamkasumovic/spigot-server-ibm) that produced a highly customizable Minecraft server and ran on a free IBM Cloud Hyper Protect Virtual Server instance. Also used game design experience to create a highly accurate in-game Minecraft replica of the IBM CIC Lansing office for use in presentations.

Teaching Assistant, MSU Computer Science Dept., online   Sep 2021 - Present
- Developed and critiqued over ten projects using Python for use in Dr. Onsay's Algorithms and Data Structures course.
- Held weekly help room sessions and used elevated communication skills to describe concepts to groups of students in a clear, understandable way.
- Reinforced proficiency in selecting and writing algorithms and data structures to solve problems efficiently through code.

Research Assistant, MSU SEIT (Cybersecurity & IoT) Lab., online   May 2021 - Sep 2021
- Wrote web crawlers in Python and website backends to populate the lab website with current cybersecurity news (https://seit.egr.msu.edu/). Set up hosting for the website with Google Firebase.
- Used SQL to query and store cybersecurity news articles in an AWS database, along with Natural Language Processing and Text-To-Speech in Python to predict the topic and generate audio recordings of the articles, respectively.
- Quickly learned React Native and Expo to develop a mobile app POC for displaying and playing cybersecurity news articles using the AWS database.

SKILLS

Programming/Technical: Python, C#, C++, C, ARM Assembly, Java, COBOL, JCL, Docker, IBM Cloud, Debian and Redhat Linux environments, *NIX commands, Vim SQL, Hadoop, Pig, MATLAB, JavaScript.

Soft Skills: Growth mindset, time management, communication, problem solving.

HONORS AND EXTRACURRICULARS
- Distinguished Freshman Scholarship (free tuition for all eight semesters).
- MSU Smash Ultimate Club member.
- Piano player for 15 years, serving as an entertainer for my peers.