Zachary Sanger

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Executive Summary

Computer Science student skilled in full-stack development, cloud technologies, and problem-solving. Seeking a Software Engineering position to apply technical skills, teamwork, and adaptability.

Education

Bachelor of Science, Computer Science

University at Buffalo, Getzville, NY   *Aug 2021 – Present*
Key Project: Network Path and Bandwidth Allocation Simulator - Developed a Python tool optimizing network paths and bandwidth using Breadth First Search.

Projects

EmotionAI: Developed an AI system using Convolutional Neural Networks (CNNs) with TensorFlow for real-time emotion detection. The system captures live video feeds through a camera using OpenCV and analyzes facial expressions to categorize emotions.
EnemyAI: Developed a mini-game in Scala, using Breadth First Search (BFS) for enemy tracking and a physics engine for projectile movement. Conducted testing to improve system performance.
Point-Of-Sale: Designed a Point-Of-Sale (POS) system in Scala, integrating a coupon management system. Applied object-oriented programming (OOP) and state variables for functionality.
DreamInsight: Developed the front end of a sleep analysis platform using JavaScript and React, focusing on user interface design and data visualization. Employed React components and state management to ensure seamless interaction between the user and the platform. Utilized CSS for styling and ensured cross-browser compatibility.

Experience

IT Technician

Techworks Consulting, United States   *May 2022 – Present*

- Automates repetitive tasks using bash and PowerShell scripts, improving system efficiency and reducing manual effort.
- Troubleshoots and resolves user support tickets involving software, hardware, and network issues across multiple platforms.
- Optimizes ticket resolution processes, contributing to enhanced team productivity and reduced downtime.
- Collaborates with teams to address complex technical issues, ensuring system stability and uptime.
- Communicates solutions clearly to users, contributing to high levels of user satisfaction.

Skills

Programming Languages: Java, Python, Scala, C, JavaScript, SQL
Tools: Git, Docker, Kubernetes, Jenkins, Terraform, PowerShell, React, Django, Flask, Maven
Technical Skills: Cloud Solutions (AWS), DevOps Practices, Full-Stack Development, REST APIs, Microservices, Data Structures and Algorithms
Soft Skills: Analytical Thinking, Problem-Solving, Teamwork, Effective Communication, Adaptability