

## Zachary Sanger

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### Executive Summary

Computer Science student with expertise in cloud technologies, full-stack development, and scripting. Passionate about leveraging technical and problem-solving skills to build scalable, innovative solutions addressing real-world challenges. Eager to contribute to a collaborative, customer-focused environment with a commitment to learning and growth.

### Education

Bachelor of Science, Computer Science

University at Buffalo, Getzville, NY Aug 2021 – Present

### Projects

**WealthWise:** Developed a financial management tool using React, PHP, and an SQL backend database. The application provides users with insights into their financial habits, tracks expenses, and enables goal setting to improve personal financial health. Focused on scalability, user experience, and secure data handling.

**RoutineFlex:** Built a social media application for sharing workout routines and fitness goals. Developed the frontend with plain HTML and JavaScript, with a backend powered by Python and PostgreSQL. Emphasized data integrity, user-friendly interface, and seamless interaction to foster an engaged fitness community.

**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.

**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: Python, PowerShell, JavaScript, Java, Scala, C, SQL

Scripting and Automation: Bash, Python scripting, PowerShell

Tools: Git, Docker, Kubernetes, Terraform, React, Django, Flask, Maven

Technical Skills: Cloud Solutions (AWS), Full-Stack Development, REST APIs, Microservices, Data Structures and Algorithms

Soft Skills: Collaboration, Effective Communication, Analytical Thinking, Problem-Solving, Adaptability, Time Management