MARK RUNKLE

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📞 309-798-8147 ✉ markrunkle67@gmail.com 🔗 linkedin.com/in/markrunkle ⌨ github.com/mrunkle01 🌐 Portfolio

Education

Aurora University GPA: 3.9 | **December 2026**
Bachelors of Science in Computer Science and Cybersecurity | *Aurora, Illinois*

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Computer Architecture, Network Security, Computer Security, Databases, Web Application Development, Cryptography & Encryption

Skills

Operating Systems: Windows, Linux, Command Line/Terminal
Hardware & Troubleshooting: Raspberry Pi, GPIO configuration, Breadboard circuits, Peripheral devices, Hardware diagnostics
Programming Languages: Python, C++, Java, JavaScript, SQL
Tools & Software: IntelliJ, Git/GitHub, MySQL, JSON, Local Storage APIs
Technical Support: System configuration, Software debugging, Dependency resolution, Problem solving, Attention to detail

Projects

Raspberry Pi Motion Detector | *Python, Hardware, Linux* | **March 2025**

- Configured Raspberry Pi hardware with PIR sensor and LED using breadboard connections and GPIOZero library.
- Resolved Linux system configuration issues to enable GPIO functionality and peripheral device communication.
- Built GUI application with user authentication, system controls, and password management for end-user interface.
- Integrated Pygame library for audio alerts, resolving software dependencies and compatibility issues on Linux.

Compiler Project | *C++* | **April 2025**

- Designed system architecture with lexical analyzer, parser, and runtime interpreter using systematic debugging.
- Implemented tokenization and parsing modules to validate input, handling edge cases and error conditions.
- Built interpreter with instruction execution and memory management, troubleshooting runtime errors for reliability.
- Applied object-oriented design principles to create modular, maintainable codebase with clear interactions.

Yahtzee Web App | *JavaScript, HTML, CSS* | **November 2024**

- Developed browser-based application with responsive CSS Grid design ensuring cross-device compatibility.
- Implemented local storage with JSON for persistent data management, troubleshooting browser compatibility issues.
- Debugged JavaScript logic for game rules and scoring calculations using systematic problem-solving approach.

Experience

Aurora University | **March 2024 – Current**
Campus Public Safety Student Worker | *Aurora, Illinois*

- Conduct systematic patrols of campus buildings and properties, identifying security risks and ensuring safety protocols.
- Monitor and report irregular activities using radio communication systems and digital logging tools for incident tracking.
- Execute incident response by providing foot escorts and emergency assistance in a timely, organized manner.
- Document operational status of facilities, contributing to decision-making and improving campus safety measures.

Extracurricular

Computer Science Club | **Fall 2024 – Present**
Member | *Aurora University*

- Organized club activities, improving event planning and leadership experience within a tech-focused community.
- Attended workshops and presentations on emerging tech topics, staying up-to-date with industry best practices.
- Collaborated on group projects with club members, demonstrating project management and technical execution.