Mark Alexander

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EDUCATION

Towson University – Bachelor of Science in Computer Science   Expected Dec. 2024
- GPA: 3.67

Pikes Peak Community College – Associate of Science in Computer Science   August 2020 – May 2022
- GPA: 4.00

SKILLS

Languages: Python, Java, JavaScript, Kotlin, C, C++
Technologies: Git, React, Svelte, Node.js, Express.js, MongoDB

PROJECTS

Snake AI (Python/PyGame)
- Utilized Python and PyGame to construct and train an AI model efficiently though a genetic algorithm.
- Implemented reproduction and mutation of the "fittest" snake to simulate generations of snakes that adapt and improve.

Encrypted Client-Server Messenger (Python)
- Led a collaborative effort to design and develop an encrypted client-server messenger application in Python, ensuring secure communication channels for multiple users.
- Implemented TCP encryption protocols to safeguard data transmission.

Android Planner Application (Kotlin/Jetpack Compose)
- Contributed to the development of an Android planner application using Kotlin and Jetpack Compose, taking charge of both database integration and UI design.
- Implemented a database system to efficiently manage user data, ensuring seamless storage and retrieval of information within the application.

Full-Stack Game Website (MERN Stack)
- Collaborated closely with team members to develop a multi-game website using MongoDB, Express, React, and NodeJS.
- Spearheaded the implementation of front-end functionalities, leveraging React to create dynamic and interactive interfaces for games such as tic-tac-toe, checkers, and connect four.
- Designed and developed the login and signup pages, ensuring secure authentication, while integrating them seamlessly with the back end.