Jude Hageman

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EDUCATION

Temple University – College of Engineering　　　　　　　　　　　　　　　　Philadelphia, PA
B.S. in Electrical and Computer Engineering (Expected)　　　　　　　　Expected Graduation: May 2028
Montgomery County Community College, Blue Bell, PA　　　　　　　　　　　　　　Blue Bell, PA
Dual Enrollment Coursework in Engineering and Computer Science
Cumulative GPA: 3.875/4.00　　　　　　　　　　　　　　Dates Attended: Aug 2024 – Present

RELEVANT EXPERIENCE

Spiritual Text Query Backend – Java, Spring Boot
Collaborative Project (Backend Developer)
- **Designed and implemented RESTful API endpoints using Spring Boot to process spiritual text queries and return relevant results based on user input.**
- **Built a modular Java backend with clearly separated controller, service, and utility layers for query handling, Bible verse parsing, and large language model integration.**
- **Developed backend logic to parse and interpret Bible references, returning context-aware responses from spiritual texts.**
- **Integrated with external services, including ESV Bible API and a local LLM-based assistant, to support natural language understanding of scriptural content.**
- **Collaborated with a teammate handling the frontend; maintained a consistent API interface to ensure seamless UI integration.**

Text-Based Adventure Game – Python
Independent Project
- **Built an interactive, single-player text-based adventure game using Python to reinforce programming fundamentals such as conditionals, functions, and user input handling.**
- **Applied modular programming techniques to structure game logic into clean, reusable components, simulating principles of state machines and control flow relevant to embedded systems.**
- **Incorporated randomized behavior and branching paths to simulate decision-based systems, laying groundwork for understanding event-driven programming.**
- **Designed a basic command-line UI with time delays to simulate interaction timing — a concept also applicable in timing-sensitive systems like microcontrollers.**
- **Implemented graceful error handling and restart logic, emphasizing user experience and robust control logic, skills transferable to system diagnostics in hardware applications.**

Shopping Cart Logic – JavaScript
Solo Project
- **Engineered the core shopping cart functionality for a storefront web application using vanilla JavaScript, including item addition, removal, quantity updates, and dynamic price calculations.**
- **Designed a modular and maintainable code structure to manipulate the DOM, update UI state in real-time, and manage cart data.**
- **Implemented and passed unit tests to validate cart logic and ensure correctness of cart operations under various scenarios.**
- **Gained hands-on experience with event handling, array methods, and JavaScript object manipulation in a functional programming style.**
- **Strengthened debugging and testing skills by using console.log, browser developer tools, and test suites (script.test.js) to verify all features.**

SKILLS & COURSEWORK

Computer: Python, C/C++, Java, JavaScript, Verilog, System Verilog, VHDL, HTML, ReactJS, CSS, Git/Github
Relevant Coursework: Digital Circuit Design

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