

# Evan Humphrey

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## Education

### West Virginia University

B.S. Computer Science - AoE in Cybersecurity, B.S. Computer Engineering, B.S Electrical Engineering

Morgantown, WV

Spring 2027

GPA: 3.91

Relevant coursework: Digital Logic Design, Microprocessor Systems, Operating Systems, Intro to Software Engineering, Digital Electronics, Electrical Circuits 1 & 2, Signals and Systems 1, Data/Computer Communications, Secure Software Development, Host-Based Cyber Defense

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## Experience

### CS450: Operating Systems - Teaching Assistant

West Virginia University

Morgantown, WV

August 2025 - Present

- Held weekly office hours, helping students debug kernel-level code and understand complex OS concepts
- Collaborated with course instructor to develop and improve class materials
- Mentored students by helping them write C and Assembly for low-level system programming

### Eugene V. Cilento Engineering Learning Center - Tutor

West Virginia University

Morgantown, WV

August 2025 - Present

- Assisted students across a wide variety of course subjects and concepts including math, physics, computer science, and engineering fundamentals
- Collaborated with other tutors to manage the flow and demand of students attending the learning center
- Wrote detailed reports after meeting with students to keep comprehensive records on study habits for instructor use
- Worked with students to develop an understanding of the course material by leveraging past experience and records with each subject

### Cashier

Kroger

Morgantown, WV

May 2025 - Present

- Collaborated with other team members to expedite front-end operations and reduce customer wait times
  - Handled high-volume transactions with speed and accuracy during peak shopping hours
  - Resolved customer concerns efficiently and professionally, maintaining company standards
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## Projects

### PALFA Radio Pulsar Survey Data Collection

Spring 2023

- Organized a large data set of radio pulsar signals from Arecibo Observatory using Java
- Accounted for error in the data set to minimize potential outliers
- Used various searching and sorting techniques to compare various timings of differing organization methods

### **EZMeal**

Spring 2024

- Organized and led a group of students to create a website focused on recipes and cooking
- Led the backend optimization and creation team to launch a database admin panel
- Utilized phpMyAdmin hosted on an AWS EC2 instance for database management
- Gained experience in database management and creation as well as basic SQL querying calls

### **Simple CPU Design**

Spring 2024

- Designed a simple 8-bit CPU that is equipped with 8x32 byte main memory
- Programmed in VHDL
- Implemented on an Intel DE-10 Lite FPGA Board using Intel Quartus Prime

### **Temperature Monitoring System**

Spring 2025

- Built a temperature monitoring system using TI microcontrollers with ADC, UART, and motion sensor integration
- Developed real-time control logic with LED state indicators and interrupt-driven operation
- Created a serial interface to receive temperature values from temperature board to controller for visual monitoring

### **MPX: Linux-based Operating System**

Spring 2025

- Gained hands-on experience with hardware-software interfacing and low-level I/O operations
- Applied core operating system concepts by developing a modular OS with standard kernel features
- Automated the build process with Makefiles and leveraged GDB for low-level kernel debugging

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## **Activities**

### **WVU AI Club**

Fall 2022 - Present

- Club focused on educating students about artificial intelligence and its applications in industry

### **WVU IEEE Beta Rho Chapter**

Fall 2023 - Present

- Club focused on Electrical/Computer Engineering
- Concentrated on creating and supporting students to build skills through personal/club projects

### **WVU Amateur Radio Club**

Fall 2024 - Present

- Club focused on educating students on amateur radio and its applications

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## **Additional**

**Licenses:** Amateur Radio Licensee: KF8DUQ (General License)

**Hardware:** Intel DE-10 Lite, Raspberry Pi, TI Tiva C, many ICs

**Software:** VSCode, Intel Quartus Prime, Keil IDE, LTSpice, Microsoft Visual Studio, KiCAD

**Languages:** C, Java, VHDL, ARM Assembly, HTML, CSS, Python, MATLAB

**Dean's List Scholar:** Fall 2022, Spring 2023

**President's List Scholar:** Fall 2023, Spring 2024, Fall 2024, Spring 2025

**Interests/Hobbies:** Computer Building, Programming, Hammocking, Hockey, Video Games