Harsh Modi

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EDUCATION

IOWA STATE UNIVERSITY, B.S. in Computer Engineering, **GPA: 3.13** Ames, Iowa
Expected May 2026

WORK EXPERIENCE

IT Intern, **Erpelding, Voigt & Co.** Jun. 2025 - Aug. 2025

- Developed a modular Python application launcher with a CustomTkinter GUI that dynamically manages 10+ applications in a single virtual environment, reducing resource usage by 60% and setup time by 40%
- Engineered a Python-based User Preferences tool by automating a checklist of configuration tasks; reduced Virtual Desktop setup time by 20% and decreased related IT support tickets by 35%
- Spearheaded a complete UI/UX overhaul of the company's tech tools application using CustomTkinter, directly impacting 50+ users company-wide while streamlining the workflow for accounting team members

Website Developer, **Burr Oak Motel** May 2024 - Aug. 2024

- Built a responsive website for the company using React.js, ensuring seamless UX across all devices
- Achieved a 140% increase in website impressions and 100% client satisfaction upon completion

UNIVERSITY PROJECTS

Hardware Developer and Tester, **Remote Controlled Ice Cream Truck Roomba** Jan. 2024 - May 2024

- Constructed boundary adherence systems, ensuring 360° navigation and strict adherence to perimeters
- Created a GUI in Python, enabling 100% obstacle avoidance through effective object detection
- Engineered wireless control system, enabling precise and 100% reliable remote operation within 30 feet
- Collaborated with a team of 4 engineers, achieving 100% of project milestones on schedule and within scope

Backend Developer, **Package Scanner Application** Jan. 2024 - May 2024

- Utilized a MySQL database in Spring Boot, managing 100+ package records with 1:1 and 1:M relationships
- Built 8 interconnected classes, facilitating secure user authentication via Google and package status tracking
- Implemented 15 core project features and ensured compliance with 6 non-functional requirements
- Stayed within the initial project scope, ensuring deliverables were 100% complete, on time, and within budget

ACTIVITIES

2023 - Present Peer Mentor, **Hixson Peer Mentor** Jan. 2023 – Present

- Gained 150+ hours of leadership experience by collaborating with peer mentors and staff for 3 years
- Mentored 300+ students, contributing to a 93% academic success rate and 98% personal success rate

President, **Hixson Student Board** Aug. 2023 – Present

- Cultivated community and inclusivity by organizing over 10 scholar events and 4 successful board fundraisers
- Raised $1,909.50 for board programs, funding over 10 events and engaging 200+ students over 3 years

ADDITIONAL

Technical Skills: Java, C, Python, Verilog, HTML, CSS, React.js
Frameworks/Tools: Spring Boot, Hibernate, Git, Scrum, CustomTkinter
Relevant Coursework: Electric Circuits, Data Structures, Embedded Systems, Software Development Practices
Languages: Fluent in Spanish, English
Awards: John Philip Sousa Music Award, Christina Hixson Scholar Award, Program of Study Award