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EDUCATION

Dhvani Mistry

Iowa State University
Bachelor of Science in Computer Science

Expected Graduation: May 2026
Ames, IA

EXPERIENCE

Software Engineering Intern CDS Global	May 2025 – present Des Moines, Iowa
<ul style="list-style-type: none">Engineered a robust Python-based batch processing pipeline to automate Out-of-House (OOH) renewal file generation, reducing manual effort by 90% and increasing delivery consistency across multiple product lines.Designed modular logic to differentiate and process single vs. gift renewals across membership and publication domains, improving code clarity and maintainability by 25%.Automated output file creation and S3 uploads based on program-specific assembly IDs, minimizing runtime delays and ensuring seamless integration with downstream systems.Performed rigorous debugging and data validation, reducing file errors by 40% and improving reliability in customer communications.Collaborated with QA and business stakeholders to align technical workflows with operational requirements, accelerating deployment timelines by 15%.	
Software Engineer Intern Crest Data Systems	May 2024 – Jul 2024 San Jose, California (Remote)
<ul style="list-style-type: none">Created and maintained apps, add-ons and dashboard in Splunk.Wrote and optimized scripts for modular inputs and scripted inputs to automate data ingestion and monitoring processes in Splunk. Implemented checkpoint mechanisms to ensure data integrity and prevent duplication during re-runs.Managed log data, performed real-time data monitoring, and used Splunk’s Search Processing Language (SPL) for search and analytics.	
Undergraduate Research Assistant Iowa State University – Research on Consistency in CP-Theory Preferences	Feb 2025 – present Ames, IA
<ul style="list-style-type: none">Participated in research meetings and contributed to idea generation on eliminating inconsistencies in qualitative preferences.Supported collaborative discussions and research exploration on CP-Theory and preference aggregation.Gained experience with preference reasoning, computational complexity concepts, and integer linear programming approaches.	

PROJECTS

SoilSentry Full-Stack Web Application, JavaScript, HTML, CSS, Node.js, Express, React, MongoDB
<ul style="list-style-type: none">Developed a web application using React for the frontend, Node.js and Express for the backend, integrating Raspberry Pi sensors to monitor temperature and humidity.Utilized a MongoDB database to store plant information and optimal growth conditions, providing realtime feedback and alerts to users about plant health.Implemented data collection from sensors and designed a user-friendly interface for tracking plant conditions and recommendations.
CyLife Full-stack Application, JavaScript, Java, MySQL, Spring Boot, Android Studio, WebSockets, Maven, CI/CD
<ul style="list-style-type: none">Spearheaded Frontend development for a full-stack application, utilizing Android Studio, Java and MySQL to optimize multiple relational database tables, resulting in a 30% increase in application performanceCollaborated in a 4-person team to integrate real-time chat and notification features into the application using WebSocket channels, ensuring smooth and cohesive functionality alongside frontend developers

LEADERSHIP	SKILLS
Teaching Assistant: COMS3110 , ISU Aug 2024 – May 2025	Languages: Java, Python, SQL, C/C++, JavaScript, HTML/CSS
Teaching Assistant: COMS3090 , ISU Jan 2025 – May 2025	Frameworks/Tools: React, Node.js, Express, Git/GitHub, Android Studio, Neo4j, Alembic, Orval, Ollama
Orientation Leader , ISSO, ISU Aug 2023 – Aug 2025	Technologies: REST APIs, Data Validation, CI/CD, Splunk, Jira, Confluence, Bomgar, MECM, Jamf Pro, Active Directory, ServiceNow, Pydantic Models
Mentor Chair , Digital Women’s Club, ISU May 2025 – Present	
Student Advisory Council , ISU Aug 2025 – Present	