

VIBHA SUNEEL NAVALE

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EDUCATION

University of Illinois Chicago, IL Master of Science in Computer Science	Jan 2024 – Expected Dec 2025 GPA: 4.00
RNS Institute of Technology, Bengaluru, India Bachelor of Engineering in Information Science	2017 – 2021 GPA: 9.08

TECHNICAL SKILLS

Frameworks & Technologies	React, Angular, Node.js, AWS, REST API, Express, SumoLogic, New Relic
Languages & UX Research	JavaScript/TypeScript, Java, Python, PostgreSQL, Mixed Methods Research
Tools	Git, Docker, Jira, Postman, DBeaver, Supabase, VS and VS Code, Jupyter Notebook

EXPERIENCE

Software Engineer Cimpres	Aug 2021 – Dec 2023 <i>Bengaluru, India / Remote</i>
• Developed and implemented various REST containerized microservices using Node.js and Express for a logistics product, optimizing shipping processes and saving up to \$100K annually . Built front-end components with React and Angular , and managed databases with PostgreSQL .	
• Enhanced API performance by implementing caching mechanisms for frequently accessed data, reducing response time by 40% (from 900 ms to 530 ms) and lowering costs associated with third-party API calls.	
• Utilized AWS services (ECS, EC2, Lambda, API Gateway, Secrets Manager) and deployed infrastructure using CloudFormation to maintain infrastructure as code. Enhanced security with WAF , automated secrets rotation, and secure S3 access.	
• Migrated logs from Sumo Logic to New Relic , cutting logging and monitoring costs by 75% and consolidating monitoring capabilities into a single platform.	

Graduate Teaching Assistant University of Illinois Chicago	Aug 2024 – Present <i>Chicago, IL / On-site</i>
• Grade Software Engineering assignments, projects, and exams, providing timely feedback on implementation quality, testing depth, and documentation.	
• Facilitate coding project demos , guiding students through key technical concepts and development processes.	
• Support students individually and in groups with coding , project requirements, and software engineering principles, including Git branching, CI checks, and code review etiquette.	

PROJECTS

Tech Support for Older Adults – MS Project Led a mixed-methods research study on older adults' preferences for video-based tech support vs. traditional methods, and developed an automated system that generates image-based step-by-step guides by using a foundational action model and extracting UI elements from YouTube tutorials using OpenCV. The tool improves accessibility by converting video content into a more user-friendly format.	Jan 2025 – May 2025
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Technologies: HCI, UX Research, OS-ATLAS, OpenCV, React, FastAPI	Sep 2024 – Dec 2024
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MindBridge Led user interviews and usability testing to inform the design of a secure HCI system for streamlining patient histories in mental healthcare. Developed high-fidelity Figma prototypes focused on accessibility and workflow efficiency.	Sep 2024 – Dec 2024
Technologies: HCI, Figma, React	

Find Your Roof Built a full-stack web application using React , Next.js , and Supabase to help unhoused individuals in Chicago find shelters, affordable rentals, and job opportunities. Focused on accessibility and user needs to support real-world impact.	Jan 2024 – Apr 2024
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PAPER PUBLICATIONS Why They Come, How They Learn: Older Adults in Formal Learning Spaces for Digital Skills HCI, Qualitative Analysis, Submitted to ACM ASSETS 2025	Apr 2025
Analyzed recordings from 13 workshops with 83 older adults to study how spatial learning, instruction methods, and motivation shaped digital engagement. Applied inductive and deductive codes in a structured qualitative analysis and co-authored a paper on design implications for onboarding and education systems, focusing on sociomaterial factors, privacy, and user goals.	