

Vinayaka Hosahalli Kotrappa

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EDUCATION

Northeastern University, Boston, MA

Master of Science, Computer Science

Related Courses: Program Design Paradigm, Algorithms, DBMS, HCI, Mobile App Development, Web Development, Introduction to Data Management and Processing, Mixed Reality, Accessibility HCI

National Institute of Engineering, Mysore, India

Bachelor of Engineering, Information Science

SKILLS

Programming: Java, Python, R, SQL, Shell

Web Technologies: HTML5, CSS3, JavaScript, TypeScript, React, Redux, NextJS, Express.js, Node.js, Bootstrap, Tailwind-CSS

Databases: MySQL, MongoDB, Firebase Realtime Database, SQLite

Other: Spring Framework, REST APIs, Android, GitHub, Git, Axure, Figma, Agile, Jira, JUnit, JSON, JDBC, UI/UX, Linux, Windows, macOS, AWS, EC2, Docker

WORK EXPERIENCE

Research Assistant

January 2024 - Present

Northeastern University, Boston, MA

- Serving as a Research Assistant in Human-Computer Interaction (HCI) under Professor Caglar Yildirim, actively working on enhancing accessibility in Virtual Reality (VR)
- Analyzed 1000 of CHI paper, to come with a paper to provide future researchers a direction in VR Accessibility.
- Submitted CHI paper with Synthesis of 74 papers, about future research in VR and Accessibility
- Working on VR Training application using Unity for formerly Incarcerated women

Front-End and UI/UX Design Intern

January 2024 – April 2024

MoneyHop, UK/India

- Collaborated with a team of developers and designers to enhance web applications by addressing bugs, and optimizing performance and user experience utilizing ReactJS, and Tailwind-CSS
- Revamped the website using Norman and Nielsen's HCI principles, enhancing error handling, feedback mechanisms, visibility, and affordances for a smoother, user-centric design
- Increased user satisfaction by 30% and efficiency by 40% of web application and App by accommodating better design principles based on user survey

Lead Teaching Assistant

January 2023 – December 2023

Northeastern University, Boston, MA

- Developed a range of skills in HTML, CSS, Bootstrap, React, Node, and Mongo (MERN STACK)
- Created lesson plans, created assignment, and set responsibilities to other TA. Mentored and guided around 1000 students across 4 semesters in understanding these technologies
- Reduced the need for students to attend office hours by 100% which streamlined the Grading process, by making them host in Netlify

PROJECTS

NEU-Coop-Review Prototype (AXURE PROTOTYPING)

[Prototype Link](#)

- Collaborated with a team of four in the design and development of a comprehensive Neu-coop Review Application Prototype, helping the users to review their CO-OP experiences
- Incorporated all Human-Computer Interaction (HCI) design principles by performing multiple HCI design cycles, including both Summative and Formative evaluations of user study

Financial Web Application (MERN STACK)

[Github](#)

- Led a team of 4 in developing a financial web application utilizing the MERN Stack, incorporating external APIs(<https://yh-finance.p.rapidapi.com>) (<https://www.alphavantage.co/query>) and user session management
- Implemented features that allow users to bookmark financial news, view and interact with stocks from multiple exchanges, and engage socially through commenting and liking

Foggy Adventure an Android app

[Github](#)

- Devised an Android application with Java, leveraging the G-Maps API to display a foggy map which dynamically updates as users explore different areas of cities
- Integrated camera sensors to capture and geo-tag images, storing them in a Firebase cloud database, and utilized the Glide library for efficient image loading and caching