

# Dhruvisha Mondhe

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## EDUCATION

### Carnegie Mellon University, School of Computer Science

Masters of Educational Technology and Applied Learning Sciences (METALS)

### Vivekanand Education Society's Institute of Technology

Bachelor of Engineering in Computer Engineering

Pittsburgh, PA, August 2024

GPA: 3.78/4.0

Mumbai, India, June 2023

CGPI : 9.71/10.0

## EXPERIENCE

### Carnegie Mellon University

November 2023 - Present

#### Software Developer

- Led development of a AI-powered Java Tutor developed using React.js and Node.js
- Developed 30+ Intelligent Tutor Systems for SQL, Microsoft Access, and Networking using HTML, CSS and JavaScript improving learning gains by 36%
- Engineered a scalable backend architecture for AI-driven tutoring systems, optimizing performance and supporting real-time code evaluation for enhanced student engagement

### Living Things Pvt. Ltd.

August 2024 - November 2024

#### Full Stack Development Intern

- Enhanced the KPI Dashboard with improved graph timestamps and filter navigation which improved readability by 6%
- Integrated a QR Scanner for device ID entry and added installation form and video links improving user experience and operational efficiency by reducing the time required to access device details by 7%
- Built a client support app enabling QR code-based AC detail viewing and seamless app navigation which boosted customer retention by 12%
- Designed and Developed REST APIs for SMS notifications and rule settings using Express and AngularJS

### Turn the Bus

January 2024 - August 2024

#### Software Developer

- Developed a 3D virtual physics lab using HTML, CSS, JavaScript and Node.js for mobile devices
- Conducted iterative user testing with 30+ users, improving prototypes based on feedback
- Led a team of 5+ members, delivering a high-fidelity virtual lab with instructional content

### Veertu Inc.

July 2022 - July 2023

#### Front End Developer Intern

- Automated dashboard tests using Cypress, cutting manual testing time by 15% and boosting test coverage by 95%, leading to faster, more reliable deployments
- Created and automated 50+ custom test cases for the production environment

### Icapotech Pvt. Ltd.

May 2021 - August 2021

#### Data Analytics and Technical Intern

- Integrated Zoho Analytics dashboards, enhancing data access and cutting support response time by 10%
- Restructured dashboards for clearer energy savings visualization, increasing user engagement by 15%
- Identified critical business insights through data analysis, enabling data-driven decision-making and uncovering key growth opportunities

## SELECTED PROJECTS

### Python Debugging Tutor

March 2024 - April 2024

- Developed a web-based Python debugging tutor using HTML, CSS, JavaScript, Node.js, and OpenAI API for real-time error analysis and AI-driven guidance.
- Built a Python debugging tool with OpenAI for real-time execution and automated feedback.

### Sign Detect: An app to detect sign language

August 2021 - May 2022

- Led a team of four to develop a real-time ASL-to-English translation app for iOS and Android.
- Built a cross-platform ASL translator using Flutter and Python with MediaPipe, achieving 95% accuracy.

## SKILLS

**Languages:** HTML, CSS, JavaScript, PHP, SQL, Python, Java, C, Objective-C, C#, GoLang, TypeScript, Tailwind CSS

**Frameworks:** React.js, Angular, Node.js, Flutter, Swift, Cypress, Unity, AWS, Weka, Docker, Kubernetes

**Databases:** MySQL, MongoDB, Microsoft Access

**Design:** Wireframing, Affinity Diagramming, Prototyping, Interaction Design, UI/UX Design, User testing