

# SAHITHI BALERAO

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## EDUCATION

### ILLINOIS INSTITUTE OF TECHNOLOGY – Chicago, Illinois

Present – May 2025

Master of Science, Computer Science;

Course work – Software Engineering, Mobile Application Development, Software Project Management, Computer Networking, Advanced Database Organisation, User Centric Designing.

### VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY – Hyderabad, India

Aug 2019 – Jun 2023

Bachelor of Engineering, Computer Science;

Course work – Web Technologies, Object Oriented Programming in Java, Automata Theory, Computer Organisation, Operating Systems, Data Structures and Design Analysis of Algorithms, Database Management Systems, Computer Networks.

## EXPERIENCE

### UI DEVELOPER

Feb 2023 – Jul 2023

Tandem Digital | Hyderabad, India

- Designed and built **responsive** web and mobile interfaces by **creating modular components** in **HTML/CSS/JavaScript** and conducting **usability testing**, improving user satisfaction by 20% and engagement by 25%
- Collaborated** with designers and developers to translate **Figma mock-up files** into interactive prototypes, reducing design-development turnaround time by 15%.
- Prototyped** interactive wireframes, conducted A/B testing with user feedback, and optimized site performance by implementing lazy loading, enhancing functionality and improving metrics by 30%.

### Full Stack Developer Intern

Mar 2022 – Dec 2022

Signzy Technologies | India (Remote)

- Built fintech features using the **MERN** stack (MongoDB, Express, React, Node) within Agile SDLC, enhancing system reliability by 35%.
- Developed and optimized **RESTful APIs**, reducing response times by 20% while supporting 3,000+ transactions daily.
- Automated deployments using CI/CD pipelines with Docker and created scalable front-end components in React.js, increasing user engagement by 15%

## PROJECTS

### Student Assistance Application – Chicago, Illinois | Github link – ([Link](#))

Dec 2023 – Present

Developed an academic preparation app with 25 quizzes and a to-do list using React.js, Node.js, and MongoDB, boosting user engagement by 40% and improving study efficiency.

### AI-Powered Career Assistant – Chicago, Illinois | Github link – ([Link](#))

Dec 2023 – Present

Built a job search assistant using React.js, Python (Flask), and MongoDB, featuring AI-driven resource recommendations, a to-do planner, and progress tracking. Achieved 45% faster API responses, 50% higher user retention, and 40% improved engagement via dynamic UI updates and real-time tracking.

### Movieland – Hyderabad, India | Github link – ([Link](#))

Jan 2023 – May 2023

Engineered a responsive movie search platform using React.js, integrating an API for 1,000+ searches with 20% improved accuracy, enhancing load times by 30%, and reducing bounce rates by 15%.

## SKILLS

**Languages:** Python, C/C++, SQL, HTML/CSS, JavaScript.

**Platforms:** Google Collab, Jupyter Notebook, GitHub, Git, VS Code, R Studio, MySQL, Figma

**Frameworks:** Django, MongoDB, React.js, Node.js, Flask, Angular.js, Vue.js

## Achievements

- Awarded a \$12,000 Graduate Program Scholarship** for outstanding academic and professional performance in Computer Science.
- 3rd Place Winner** in the **Design-to-Develop Hackathon** conducted by the **ACM Club at Illinois Tech**, for creating a user-friendly map app that helps students navigate to the right classrooms and explore campus buildings
- 1st Place Winner** in an App Development Hackathon organized by the Machine Learning club, **Epsilon Pi**, for creating an innovative and functional application within 24 hours.