

# Akanksha Bairagi

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## PROFESSIONAL SUMMARY

Full Stack Web Developer | React.js | ROS2 | Mapbox | Electron | Interactive UI & Real-Time Application Specialist  
Passionate Front-End Developer with hands-on experience in building dynamic and responsive web applications. During a 4-month internship at Tardid Technology, I contributed to developing live mission planning tools, integrating ROS2 topics, and creating interactive map-based UIs using Mapbox and React.js. Skilled in crafting user-centric interfaces, managing data flows, and developing desktop applications with Electron. Committed to writing clean code and continuously enhancing my skills in front-end development and system integration, continuous learning in full stack and system integration.

## EDUCATION

### PrepLeaf by Masai, Bangalore

Career Accelerator Program

Apr 2025

### Devi Ahilya Vishwavidyalaya University, Indore

Bachelor of Science (B.Sc) : Computer Science

Apr 2022

## CERTIFICATIONS

### Tardid Technology

UI/UX Trainee

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## SKILLS

**Technical Skills:** React, Mapbox, Electron, DSA, CSS, HTML, Django, SQL, ROS, RESTful APIs, MongoDB, Python, JavaScript

**Soft Skills:** Attention to Detail, Time Management, Teamwork, Problem Solving, Effective Communication

## EXPERIENCE

### Tardid Technology | *Frontend Developer*

Dec 2024 - Apr 2025

- Developed Mission Planner Web UI for autonomous marine vessels with real-time ROS2 integration.
- Implemented lat-long-based polyline drawing and mission routing on Mapbox map controlled by user actions and backend commands.
- Integrated ROS2 topics for sensors and designed UI states for real-time data display.
- Built feature-tabbed UI system for operational modes and developed SAR interactive visual component for search zones and object tracking.

## PROJECTS

### Terminal Based Typing Master | *Python, Time, Random, GitHub, Git*

- Collaborated in designing and developing a terminal-based typing software using Python to enhance typing speed and accuracy.
- Implemented algorithms to assess typing speed, accuracy, and user progress, ensuring precise performance evaluation.
- Utilized data structures to efficiently store and retrieve user typing data, improving software efficiency.
- Demonstrated clear communication and problem-solving skills by managing project tasks and meeting deadlines individually.
- Adapted quickly to changes and challenges during project development, maintaining professionalism and commitment to quality.

### Terminal Based Maze Solver | *Python, I/O, Random, Time, Git, GitHub*

- Developed an algorithm to effectively solve complex mazes using Python, enhancing problem-solving and critical-thinking capabilities.
- Collaborated with the project community on GitHub for feedback and improvements, demonstrating strong verbal and written communication skills.
- Implemented various graph traversal methods like depth-first and breadth-first search, showcasing adaptability to different problem-solving approaches.
- Designed a user-friendly CLI for visualizing maze layouts, highlighting attention to detail and focus on quality user experience.
- Maintained project version control using Git and GitHub, ensuring organized and professional project management.