

# Dipali Makadia

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## SUMMARY

- 4 years of experience in software development covering frontend, backend, and full-stack tasks, skilled in responsive web development, W3C standards, cross-browser compatibility, web accessibility, Agile and Scrum methodologies, problem-solving, troubleshooting, testing, debugging, version control, and client communication.

## EXPERIENCE

### Artificial Intelligence Intern

Radical AI

06/2024 – present

- Contribute to team efforts in creating 'Kai: The AI Teaching Assistant,' employing Python and TensorFlow for LLMs and RAG models and integrating OpenAI's API to advance natural language capabilities.
- Streamline data processing with PySpark, manage storage with MongoDB, and deploy Redis for caching, bolstering system responsiveness and supporting multimodal functionalities.
- Apply multimodal AI techniques, leveraging RNNs and CNNs to refine adaptive learning features, improving learner outcome predictions by over 20%.

### Programmer Analyst

Cognizant

05/2021 – 01/2022

- Collaborated on the **O2 project**, utilizing HTML5, CSS, SCSS, JIRA, NodeJS, ES6, JavaScript, JQuery, GIT, and Adobe Target to develop engaging and responsive front-end components.

### Associate Interface Developer

Digitas

05/2019 – 05/2021

- Programmed the **DMI project** with team, using HTML5, CSS3, Highcharts, D3, GIT, Handlebars, NPM, JavaScript, ES6, jQuery, Bootstrap, NodeJS, and ReactJS to develop visually appealing, interactive graphs and front-end components.
- Built a single-page app containing a dashboard, graphs, roadmap, and calendars, conducted testing.
- Expanded **Formula1 project** by implementing tracking code and set up data filters using Google Analytics and JQuery. Explored new concepts through research using Google Cloud and NodeJS.

### Software Developer

Motes & Bots Technologies

07/2018 – 02/2019

- Lead the team on the **Smart Office Project** to develop a secure and user-friendly website for office management, utilizing ReactJS, Firebase, NodeJS, HTML5, CSS, Bootstrap, and AWS.
- Features like user authentication and authorization were established, CRUD operations for employee data, and created modules for office management.
- Participated in the **Smart Home** application to create a safe and easy-to-use dashboard for home management, using the latest technologies like Angular, Firebase, NodeJS, HTML5, CSS, Bootstrap, and AWS.
- Gained knowledge of new technologies and implemented software development lifecycle, including the analysis, coding, building, testing, and deployment.

### Software Engineer Intern

Textron

07/2017 – 06/2018

- Contributed on the **Request Tracker** website using C#, .NET Framework, HTML, CSS, and SQL Server. Collaborated with the team to design a dashboard for tracking requests, performing CRUD operations, creating a user-friendly interface, conducting testing, and fixing bugs.

## EDUCATION

### Master of Science, Computer Science

California State University Los Angeles

GPA - 3.84/4

01/2022 - 12/2023

### Master of Technology, Computer Science & Information Security

Manipal Institute of Technology

08/2016 – 07/2018

### Bachelor of Science, Information Technology

Gujarat Technological University

06/2012 - 07/2016

## RECENT PROJECTS

**Data Visualization and Management Application** *(React, React Hooks, JSON, Highcharts, Material UI, Material React Table, export-to-csv, AOS, Firebase)*

- Integrated large and complex data into graphs and tables with features including filtering, sorting, downloading CSV files, pagination, and smooth animations.

**Automated Restaurant Question-Answering app using ChatGPT API** *(React, Python, FastAPI, Langchain, OpenAI API, AWS, GIT, Github)*

- Defined a query-based restaurant information retrieval app and established a backend system interfacing with the OpenAI API to extract details from restaurant menus. Improved the app's ability to understand and respond to user queries effectively.

**Personal Portfolio Website** *(ReactJS, Tailwind CSS, GIT)*

- Designed and developed a personal website showing information that includes education, work experience, projects, skills, and contact details.

**Task Management** *(VueJS, JSON, NodeJS, MongoDB, ExpressJS, HTML, CSS, Postman API)*

- The dynamic and user-friendly task management application includes components such as users, employees, and projects, all uniquely linked and supporting CRUD operations.

**Security Algorithms** *(Java, C/C++)*

- Generated security algorithms, such as RSA and DES.

## SKILLS

- **Frontend:** HTML5, CSS3, SCSS, Bootstrap, Tailwind CSS, JavaScript, jQuery, React, React Hooks, Redux, Angular, Vue, ES6, Highchart, D3.js
- **Backend:** Nodejs, Java, Python
- **Database:** MongoDB, Firebase, SQL Server
- **Cloud:** AWS, Adobe Targets, Google Analytics, Google Tag Manager
- **Tools:** Visual Studio Code, Jupyter Notebook, Microsoft Office, Google Collab, Eclipse, Postman, Wordpress, Photoshop, JIRA, GitHub
- **AI Tools:** vertexai, streamlit, LLM, Gemini, FastAPI, Generative AI Tools, Large Language Models (LLM), Langchain, FastAPI, OpenAI API
- **Additional Skills:** API, AJAX, JSON, AEM, Accessibility, Web Services, Software Development Life Cycle, Object-Oriented Programming, GIT, NPM, Gulp/Grunt, Bower, Handlebars, Nodemailer, Linux, Windows, Mac