Dinesh Kannan

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github.com/dineshkannan010

Education

North Carolina State University, MS in Computer Science   May 2025
- GPA: 3.72/4.0
- **Coursework:** Object Oriented Design and Development, Neural Networks, Cloud Computing, Design and Analysis of Algorithms

University of Mumbai, BE in Computer Engineering   May 2022
- GPA: 9.31/10.0

Skills

Technical Skills: Python, JavaScript, React, Flask, MongoDB, Ruby on Rails, MySQL, AWS Cloud, HTML, CSS

Tools: Object Oriented Programming, Git, DBMS, LLMs, PyTorch, Software Development Design, Data Structures and Algorithms, Postman

Experience

DC Analyst, Deloitte USI – Mumbai, India   January 2023- July 2023
- Developed a CRM system for an insurance company, leveraging Dynamics Sales and Service Instances, which streamlined client management and enhanced customer service efficiency.
- Coordinated the development of the Vegetation Management project, delivering a pre-built set of user stories, personas, and an unmanaged package. This solution, ready for clients and the market, enabled comprehensive end-to-end workflows, significantly improving project delivery time and client satisfaction.
- Responsibilities included building Dynamics App for Mobile and Desktop, Power Automate to automate the flows and use JavaScript to customize the Dynamics App.

Web Editor, IEEE-VESIT – Mumbai, India   November 2020 - April 2022
- Led workshops on Web Development using React and Node.js, and Cloud Computing with AWS for junior members, empowering them with critical technical skills and fostering a culture of learning and development.
- Developed a profile website using Node.js, improving the online presence and accessibility of the committee.

Web Development Intern, VESIT – Mumbai, India   May 2020- June 2020
- Built a comprehensive teacher's profile website for the faculty of VESIT using Node.js, SQL, and AWS, significantly enhancing the online accessibility and visibility of teacher profiles.
- Responsible for developing 60% of the back end including SQL integration, ensuring robust data management and 40% of the front end creating an intuitive and user-friendly interface, enhancing user experience and engagement.

Projects

TA Chatbot
- Developed a Teaching Assistant Chatbot where multiple students can ask queries regarding a particular course, providing timely and accurate assistance.
- Incorporated a robust user interface using React.js to interact with large language models (LLMs) using OpenAI on the backend via Flask, ensuring seamless and intuitive user experiences.
- Integrated a vector database using MongoDB and utilized Retrieval-Augmented Generation (RAG) for searching information from course textbooks to enhance the bot's ability to provide precise and relevant information.

Review Bid System
- Implemented the MVC for the Review Bid section for a project based on Ruby on Rails, which involved developing efficient algorithm to assign reviews to users based on their preferences, reducing manual workload by 30%. .
- Created comprehensive test suites with 100% coverage for Model and Controller files using Ruby and Rails testing frameworks, ensuring the robustness and reliability of the codebase.
- Collaborated with 10 students, contributing to coding with JavaScript and HTML, resolving GitHub issues, and maintaining project momentum and quality assurance.

Predicting Sites at Risk of Potential Contamination with Fecal Waste
- Led research focusing on identifying fecal contamination sources in freshwater ecosystems, using GIS, physiochemical, and nutrient data across 100+ sites, with a data size of nearly 200MB.
- Developed predictive models using Deep Neural Networks along with cross-validation to forecast fecal waste contamination, aiding in environmental conservation efforts.
- Applied advanced analytical skills including data preprocessing, visualization, extracting insights from complex datasets to enhance the accuracy and reliability of predictions.