Kshitij Dhannoda

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SUMMARY:

Software Engineer with a Master's from the University of Michigan, specializing in Computer Science. Experienced in building scalable applications using Python and Golang. Developed recommendation systems and graph visualization tools. Expanded AI features for multilingual support. Skilled in React, Redux, Django, and React Native. Proven track record in delivering high-quality code in collaborative, remote environments. Passionate about creating an impact through software solutions.

EDUCATION:

University of Michigan, MI   Jan 2024 - Jan 2026

Masters in Computer and Information sciences(General)

SKILLS:

Languages: Python, Java, Golang, JavaScript, Rust, SQL, PHP.

Frameworks: React-Native, Flutter, Native-script, OpenCV, Hadoop, PySpark, Django, Next.js.

Tools: GIT, Docker, Android Studio, Microsoft Office, LaTeX, Postman.

Soft Skills:Collaboration, Problem-Solving, Adaptability, Leadership

EXPERIENCE:

Research Assistant – University of Michigan, Dearborn   *Nov 2024 – Dec 2024*

- Tailored Open AI Cellular (OAIC) for advanced research scenarios, improving system adaptability.
- Developed a secure slicing xApp to emulate real-world network conditions, increasing research precision.
- Created a pipeline for the reinforcement agent to interact with user equipment (UE), enabling dynamic slice level control.

Software Intern – DigiQuanta, India   *Jan 2023 – Aug 2023*

- Designed and implemented a survey covering 100 data points to analyze cab service industry challenges.
- Identified key user pain points through comprehensive data collection and evaluated findings to provide actionable insights.
- Collaborated with stakeholders to present data-driven recommendations, improving understanding of user behavior and facilitating strategic decision-making.

Jr Next.js Intern – Provoke Developers, India   *Oct 2022 – Nov 2022*

- Developed interactive web pages from Figma designs, boosting online presence by 15%.
- Consolidated designs into a unified app with Git version control for streamlined feature maintenance.
- Optimized responsiveness to cover 95% of screen sizes, enhancing accessibility and usability.
- Improved user satisfaction by 40% through responsive design principles implemented with Next.js.

PROJECTS:

Recommendation System Project – Python, Pandas, Matplotlib, Jupyter Notebook   *Jan 2024 – July 2024*

- Developed a recommendation system, suggesting relevant items based on user-specified category and price range.
- Built and deployed recommender system using a 1.4M data points, enhancing user experience with sub-second latency.
- Utilized pandas for efficient data visualizations, ensuring data integrity for accurate recommendations.

Graph Shortest Path Visualization – Python, NetworkX, Matplotlib   *Jan 2024 - April 2024*

- Prototyped an MVP interactive indoor visualization using BFS for real-time pathfinding.
- Developed an interactive Python tool to compute the shortest paths using BFS with real-time visualization.
- Enabled interactive exploration of graphs with 15 nodes, facilitating analysis of network relationships.

Multi Lingual Dictionary – Django, Python, HTML/CSS, Bootstrap, SQLite   *March 2023 - Sept 2023*

- Developed a web application to provide translations across multiple languages, enhancing accessibility for diverse users.
- Implemented efficient data storage and management using Django models, ensuring robust handling of word translations.
- Designed a user-friendly search interface, significantly improving the usability and user experience of the dictionary.