DIVIJ KATHURIA

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Education

University Of Wisconsin Madison   **Sep. 2022 – May 2026**
Bachelor of Science in Computer Science   *Madison, Wisconsin*

Relevant Coursework

- Data Structures
- Building User Interface
- Database Management
- Artificial Intelligence
- Data Modeling
- Computer Architecture
- Calculus
- Microeconomics

Experience

SkyFiLabs IT solutions   **May 2023 – July 2023**
Mobile Application Developer Intern   *Noida, UP*

- Led the development of a Flutter-based task management application, integrating Firebase for authentication and Firestore for storage.
- Optimized app navigation and state management, reducing load times by 30%, measured through performance benchmarks including startup time analysis and UI rendering metrics.
- Conducted structured testing on 50+ components, resolving 6 critical defects, leading to a 40% stability improvement as observed in crash reports and issue resolution tracking.
- Integrated Firestore to enable real-time task synchronization across multiple devices, increasing task completion rates by 25%, tracked through Firestore read/write operation logs and user activity analytics.

Supros   **May 2022 – July 2022**
Robotics Engineer Intern   *New Delhi, Delhi*

- Reduced delivery costs by 25% by developing an autonomous delivery robot using Raspberry Pi, designed for efficient medicine and food delivery in nearby regions, validated through operational cost analysis.
- Improved navigation by coding and deploying movement algorithms in Python, tested in dynamic environments.
- Collaborated with an Agile team of 8, delivering weekly progress updates and achieving sprint goals consistently.

Projects

Badger Chat Mobile Application | *Javascript, CSS, HTML, Wit.ai, React, Postman*   **December 2024**

- Increased user engagement by 30% by developing a conversational chat application powered by Wit.ai for dynamic intent recognition across 8 unique intents.
- Engineered 7+ chatrooms supporting keyword-based lookups and free-text matching, improving message retrieval speed by 40%.
- Strengthened data integrity and user experience by mitigating data sensitivity risks, implementing robust error handling, and ensuring real-time response capabilities to enhance engagement metrics.
- Optimized performance by utilizing modularized components, reusable code, and efficient backend integration, adhering to modern development workflows for maintainability and scalability.

News Mobile App | *JavaScript, CSS, HTML, React, Postman*   **November 2024**

- Built and deployed a mobile news application enabling users to browse and customize news using React Native.
- Developed preference-based filtering via React Context, allowing users to toggle visibility of 30+ articles based on 5+ category tags.
- Created an article view transition using Animated API, improving navigation between summaries and articles.
- Integrated RESTful API endpoints to fetch and display, enabling real-time news retrieval with 99.9% uptime real-time news data with error handling and caching mechanisms.

Image Classification By CNN | *Python, Tenser flow, Visual Studio Code*   **April 2024**

- Collaborated with two senior colleagues to design a multi-class classification system for 60,000 images, categorizing them into 5 distinct classes while investigating superclasses and thematic groupings to enhance accuracy and efficiency.
- Defined the methodological approach, optimizing the combination of convolutional, pooling, and dropout layers to enhance accuracy and mitigate overfitting.
- Assessed the CNN model using accuracy (68.79%), precision (70.13%), recall (68.79%), and F1-score (69.17%), demonstrating significant improvement over an MLP model using python.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Git, IntelliJ
Technologies/Frameworks: React, RESTful API, GitHub, JUnit, Word, Flutter