Kanishk Dendukuri

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Education

University of Wisconsin - Madison — Madison, WI
Bachelor of Science in Computer Science & Mathematics, (GPA: 3.9/4.0) — *Graduation: May 2026*

Experience

Innocito — Jul. 2023 – Sep. 2023
Software Engineer Intern — *Dallas, TX*

- Designed and developed RESTful APIs for a registration app using Springboot integrated with an SQL Database
- Implemented SQL Queries and Stored Procedures to optimize the response times
- Conducted thorough testing of APIs using JUnit framework and Postman, ensuring robustness and reliability
- Enhanced user experience and security by implementing email verification functionality using Java Mail, effectively reducing spam and enhancing the overall reliability of the application

UMN SmallSat Research Laboratory — Nov. 2022 – May 2023
COMMS Subsystem Researcher — *Minneapolis, MN*

- Collaborated within a team environment to ensure the successful development of CubeSats for the EXACT & IMPRESS missions, scheduled for launch in 2024
- Conducted rigorous unit testing procedures to validate the secure and accurate transmission of data between ground stations and satellites, ensuring the reliability of communication protocols and minimizing data vulnerabilities.

Hindu Society of Minnesota — Sep. 2022 – May 2023
IT Intern — *Maple Grove, MN*

- Designed and presented an iOS prototype application aimed at improving communication with temple attendees
- Revitalized and managed the organization's website, resulting in a 150% surge in attendance at subsequent events
- Implementing a live streaming feature which led to a 300% increase in web traffic
- Engineered and deployed workflow automations, effectively enhancing cross-committee productivity

Projects

Quizzify, Best Use of LLMs @ HackUIowa | *Flask, Python, TypeScript, React, HuggingFace, BERT*

- Designed a full-stack web application utilizing NLP and GPT API to transform lecture transcripts, PDFs, and images into various quiz formats (multiple choice, true/false) while also providing comprehensive summaries, earning 'Best Use of LLMs' out of 68 teams.
- Led backend development using Flask and Python; integrated LLMs and prompt engineering to deliver standardized outputs for user display to the frontend.
- Assisted in frontend development using React, Next.js, ChakraUI, and TypeScript, focusing on facilitating the display of outputs from backend technologies such as BERT, HuggingFace, and pytesseract.

Heart Disease Detector | *NumPy, Pandas, Scikit-Learn, Mathplotlib*

- Engineered a heart disease detection model using logistic regression, achieving an 81% accuracy on test data.
- Utilized Pandas for efficient data handling, preprocessing, and extraction of relevant features.
- Employed Sklearn's Recursive Feature Elimination to identify and select crucial features; incorporated StandardScaler for optimal feature standardization, enhancing model accuracy and reliability.

Astro Portal | *Swift, SpriteKit, SwiftUI, UIKit, Git, TestFlight*

- Developed an iOS platformer game using SwiftUI, SpriteKit, and UIKit technologies
- Collaborated in a team of three, leveraging GitHub for seamless code merging and collaboration
- Utilized TestFlight for thorough app testing and refinement before launching
- Successfully published the game to the App Store, resulting in over 200 downloads

Technical Skills

Languages & Tools: Java, Python, TypeScript, MySQL, Swift, R, MongoDB, GitHub, C/C++, HTML/CSS
Frameworks: SpringBoot, Flask, React.js, Node.js, JUnit, SpriteKit, SwiftUI, UIKit
Libraries: Pandas, NumPy, Matplotlib, Spring Web, Spring Data, Spring Security
Certificates: Introduction to Data Science in Python (University of Michigan), Supervised Machine Learning (Stanford)
Coursework: Algorithms and Data Structures, Probability & Statistics, Applied Linear Algebra, Applied Combinatorics