Girish Dodda

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EDUCATION

UNIVERSITY OF WISCONSIN - MADISON Madison, WI
BS Computer Science, BS Data Science Expected Graduation May 2025
Cumulative GPA: 3.71/4.0; Dean's List 2022-2023
Relevant Coursework: Data Structures & Algorithms; Computer Engineering; Artificial Intelligence (Python, Tensorflow, Torch), Data Management (SQL, MongoDB), Machine Organization, Operating Systems (C), Mobile Systems (Android SDK, Kotlin)

WORK EXPERIENCE

IMAGE GUIDED THERAPY RESEARCH LAB lead by Dr. Robert Jeraj Madison, WI
Undergraduate Researcher Nov 2024 – Current
- Analyzed and aggregated segmented lesions for **51 patients** at both lesion and patient levels using **Python** to determine optimal feature combinations as predictors for a **linear regression model**.
- Utilized medical image processing software, **3D Slicer**, to segment background SUV values in liver and spleen.
- Conducted a **literature review** of over **10 scientific papers** and currently working on a **scientific presentation**.

DUO ARTS Remote
Full-Stack Developer Jun 2024 – Aug 2024
- Developed web applications using **C#**, **ASP.NET**, and **Knockout.js**, enabling artists to manage their artworks and commissions, and submitted over **20 pull requests**.
- Managed database operations using **SQL Server** and **.NET pgAdmin**, optimizing data interactions and backend processes.
- Collaborated with the designer and manager to streamline processes and improve user interfaces.

WISCONSIN MESSENGER Remote
Software Developer Jun 2024 – Nov 2024
- Developed over 8 **Python**-based **web scrapers** tailored to each newspaper's **RSS feeds**, ensuring high accuracy.
- Built a **transfer learning ML model** achieving **100% training accuracy** and **97% test accuracy** for **article categorization**.

LINCOLN PRIVATE JETS Remote
Mobile App Development Intern Jun 2022 – Aug 2022
- Addressed and resolved software bugs in **Angular** applications and submitted over **10 pull requests**.
- Independently led the transition of a web application from **Angular** to **React Native**.

PROJECTS

Tap-N-Tab Oct 2024 – Dec 2024
- Developed a **mobile app** using **Android SDK** and **Kotlin** to simplify bar visits and increase revenue for bars.
- Integrated **Firestore Database** to dynamically load and manage multiple restaurants and bars.

News Article Summarization Dec 2023
- Designed an **LSTM extractive summarization model** using **Python** and **PyTorch** to process the BBC News Archive.
- Optimized for **word-level extraction** and obtained **92% training accuracy** and **86% testing accuracy**.

Passcode App for Wear OS Aug 2023
- Developed a **Wear OS** app using **Android SDK** for automated 2FA password synchronization on **Galaxy watches**, utilized over **680 times**, leveraging **web scraping** with Duo passcodes.
- Created a **Chrome extension** using **JavaScript** to automate browser logins, streamlining the entire process.

HACKATHONS

Aegis (MadHacks 2023 - Best Sustainability Hack)
- Built a mobile app with **Android SDK** integrated with a **custom trained AI voice bot** to phone and accompany users.

Empty Fridge (MadHacks 2023 - Best Sustainability Hack)
- Built a website using **JavaScript**, **HTML5**, and **CSS** and **Puppeteer JS** for **web scraping**, to provide recipes.

Ready, Set, Go! (St3am - Best Engineering & 2nd Best Overall)
- Developed a **WiFi-based client-server** for **real-time communication** with **Arduino** and **IoT** for classroom interactions.

Baba (HackVH - 2nd Best Overall)
- Built a website using **JavaScript**, **HTML5**, and **CSS** with **Firebase Database** to help AP exam preparation.

LEADERSHIP

Hindu Yuva (Outreach and Marketing Officer) Sept 2024 - Current
- Organized Hindu cultural events by collaborating with campus clubs and securing local catering services.

Toys for Joy (Technology Lead - Member) Oct 2024 - Current
- Built a website for a non-profit organization using **JavaScript**, **HTML5**, and **CSS** to showcase recent events.

ADDITIONAL

Technical Skills: JavaScript; HTML 5; CSS; Java; Arduino(C++); Python; Tensorflow; Android SDK; Kotlin; Node.js; R; Git; Github; Jupyter Notebook; SQL; MongoDB; C; .NET; Torch; Knockout.js
Certifications & Training: Leetcode 250: Easy 94, Medium 151, Hard 5