# Yashwant Ponnaganti

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## PROFESSIONAL SUMMARY

Computer Science freshman with 6+ years of experience in machine learning, app development, and embedded systems. Seeking an internship to apply technical skills to real-world challenges.

## EDUCATION

**University of Maryland, College Park** — College Park, MD
*Bachelor of Science in Computer Science (Machine Learning Specialization)* — *Expected May 2028*
*Double Major: Applied Mathematics*
– Presidential Scholarship Recipient

## EXPERIENCE

**ML Engineering Intern** — June 2025 – Present
*Brown University & University of Rhode Island* — *Remote*
– Built a Retrieval-Augmented Generation (RAG) chatbot for Polycystic Kidney Disease support, processing 100+ research papers using FAISS embeddings.
– Developed a scalable, low-latency asynchronous backend for real-time query responses.
– **Technologies:** Python, Flutter, FAST API, FAISS, Vector Databases, OpenAI GPT-4o-mini

**Computer Hardware Engineering Intern** — June 2024 – Aug 2024
*University of Rhode Island, Biomedical Engineering* — *Kingston, RI*
– Developed a smart bottle accessory for real-time hydration reminders.
– Conducted an international market survey with 90+ participants to assess product-market fit.
– Presented the prototype at IEEE MIT URTC 2024.
– **Technologies:** Arduino, Sensors, Haptic Motors, LEDs, CAD, 3D Printing, Embedded Systems

**ML Engineering Intern** — June 2023 – Aug 2023
*University of Rhode Island, Biomedical Engineering* — *Kingston, RI*
– Developed a Human Activity Recognition (HAR) model using smartwatch data to predict ADHD onset in children (ages 7–11).
– Implemented feature engineering and regression algorithms for accurate activity tracking.
– **Technologies:** Python, Scikit-learn, KNN, Linear Regression, Data Preprocessing, Feature Engineering, Matplotlib

**Software Engineering Intern** — June 2022 – Aug 2022
*University of Rhode Island, Biomedical Engineering* — *Kingston, RI*
– Built an analytics dashboard for a digital health platform to improve caregiver data access.
– Integrated multiple Google APIs to sync patient and caregiver data efficiently.
– Delivered a live demo that drew strong hospital interest.
– **Technologies:** Flutter, Google Firebase API, Google Sheets API, Google Drive API, Syncfusion API

## SKILLS

– End-to-end web, mobile, and AIML app development.
– Strong foundation in requirements analysis, design, coding, testing, and deployment.
– Creative problem solver with strong analytical mindset and excellent teamwork.

## TECHNOLOGY

**Programming & Frameworks:** Python, Java, Flutter, React, HTML, CSS, JavaScript
**Databases & DevOps:** FAST API, Firebase, GitHub, Netlify, Vector Databases (FAISS)
**AI/ML Algorithms:** Linear/Multiple Regression, KNN, RAG, Scikit-learn, Data Analysis & Visualization
**Cloud & Embedded Systems:** Google Cloud Platform (GCP), Raspberry Pi, Arduino, IoT Sensors
**Others:** 3D Printing (Creality, Prusa), CAD