

Pranav Ramnath

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EDUCATION

Purdue University

Bachelor of Science in Computer Engineering

West Lafayette, IN

Expected May 2027

- Concentration in Artificial Intelligence & Machine learning

SKILLS

- Java, Python, Dart, MATLAB, JavaScript, Kotlin, C
- Flutter, Google Cloud Platform, React, Whisper, FastAPI, Docker, Cloudflare Workers

PROFESSIONAL EXPERIENCE

GE Appliances

Louisville, KY

Software Engineering Co-op

Jan 2025 - August 2025

- Implemented diagnostic message handling (eg: board Discover ff 01) for appliance simulators.
- Parsed and exposed ERD data to enable Rev3 **Diagnostics integration** within the SmarHq Service app.
- Built board-configuration UI and linked it to **simulator** backend via Flutter + Riverpod + Sembast.
- Refactored **legacy code** for reliability and ensured cross-version compatibility with older PAC firmware.
- Developed embedded diagnostic **systems software** enabling cross-version compatibility for PAC units.
- Maintained and enhanced legacy C# Service application by fixing bugs and adding robust error-handling.

ACE IoT Solutions LLC

Remote

Software Engineering Intern

May 2024 - Aug 2024

- Built event-management portal for tracking client IoT events with **Vue.js** frontend and **Python** APIs.
- Improved UI responsiveness and simplified component logic through **modular design patterns**.
- Utilized **Vue.js** and integrated the frontend components with backend functionality.

Purdue University, EPICS: Lafayette Transitional Housing Center

West Lafayette, IN

Project Manager & Software Lead

Aug 2024 - Dec 2024

- Developed a **website** using **React** and **MUI** for LTHC to aid homeless people with resources.
- Coordinated **design reviews**, stakeholder meetings, and deployment pipeline for feature delivery.
- Used **Google Firebase** to store resource information that LTHC admins can add/edit through a UI.
- Mentored teammates in **Git workflows** and **agile** planning to streamline development cycles.
- Emphasized the importance of **user-friendliness** and accessibility in **UI design**.

Purdue University, EPICS: Kidney Disease Diet Tracking App

West Lafayette, IN

Software Programmer & Financial Officer

Aug 2023 - May 2024

- Developed a **mobile app** for the National Kidney Foundation to help people with chronic kidney disease.
- Aimed to help CKD patients track their daily intake, nutrients, and calories.
- Utilized **Flutter** to build the app, connecting with Google Firebase to ensure flawless backend features.
- Gained experience with communicating with large organizations and working on a product together.

PROJECTS

AI Speech Coach

- Developed a full-stack **AI** web app using Next.js, Tailwind CSS, and **FastAPI**
- Enabled users to upload or record speech and receive real-time feedback on tone, pace, and filler words.
- Integrated **Whisper** for speech-to-text and sentiment analysis pipeline for actionable feedback.

BookBuddy - AI Book Recommendation Engine

- Built **Cloudflare** Workers system using KV, Durable Objects, and Workers **AI** for low-latency inference.
- Integrated **Llama-3** model to generate contextual book suggestions and persisted wishlists at the edge.
- Designed backend APIs and **caching pipeline** for real-time requests and multi-user data isolation.