# **PRANAV CHHABRA**

pranavchhabra.com | linkedIn.com/pranavchhabra | github.com/pc9350 | pranavchhabra88@gmail.com

#### **EDUCATION**

# **University of Wisconsin - Madison**

B.S. in Computer Science with Distinction | 3.9 GPA

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Deep Learning, Operating Systems, Databases

### **SKILLS & CERTIFICATION**

- Languages & Frameworks: JavaScript, Java, Python, Swift, SwiftUI, React, React-Native, Next.js, Node.js, Express.js, TypeScript
- Backend & Cloud: MongoDB, MySQL, AWS, GCP, Firebase, Docker, Pinecone
- AI & Automation: OpenAI, GPT Vision, AWS Rekognition, UiPath, Hugging Face, Puppeteer, Cheerio, RAG
- APIs & Tools: REST APIs, Stripe, Grog API, TDD, Agile
- Certification: AWS Certified Cloud Practitioner

#### **DEVELOPMENT EXPERIENCE**

## Software Engineering Resident - Headstarter Al

[Jul 2024 - Present]

[Graduated: May 2024]

- Developed & deployed AI-driven applications, integrating LLMs, RAG, NLP, and real-time analytics into scalable systems.
- Built Al-powered platforms, including *Profscore* (professor rating with vector search) and *PantryPal* (Al-driven recipe planner), reducing manual effort by **95%**.
- Created fintech & customer support AI solutions, such as a Market Anomaly Detection system and AI-powered customer support models using OpenAI & AWS.
- Building an AI-powered Chrome Extension for productivity automation, leveraging context-aware intelligence...

### **Software Engineering Intern - TeammateME**

[Jul 2024- Dec 2024]

- Developed and optimized the company's Next.js web platform and React Native (Expo) mobile app, enhancing performance and user experience.
- Improved website SEO and page load times by minifying CSS/JS in a large, complex codebase, boosting search rankings and performance.
- Designed & launched new features, refining UI/UX to improve usability across web and mobile.

## Software Engineering Extern - Capital One

[Sep 2023- Dec 2023]

- Created "MonsterRewards" iOS app using Swift and Swift UI, increasing user engagement by **20**%. Applied Agile practices to iterate on features and rapidly adapt to changing requirements.
- Optimized MongoDB queries and incorporated AWS services to enhance backend scalability, improving system performance and reliability.

## Software Engineering Intern - AiRo Digital Labs

[Jun 2022 - Aug 2022]

- Built automation scripts using UiPath and VB.NET, streamlining business processes and reducing manual task execution by 30%.
- Integrated automation tools with cloud services for data storage and processing, saving 20 hours per week for the operations team.

#### **PROJECTS**

# **LLM Evaluation Platform** | GitHub | Live Demo

[Jan 2025]

- Built a Next.js + TypeScript platform for parallel LLM evaluation (GPT-4, Llama-70B, Mixtral), cutting testing time by 80%.
- Created a Recharts analytics dashboard for real-time cost, token usage, and response time visualization.

#### **NeuroLens: Brain Tumor Classification** | <u>GitHub</u> | <u>Live Demo</u>

[Nov 2024]

- Built an AI model for classifying brain tumors in MRI scans, achieving ~94% accuracy with a custom CNN and ~99.5% accuracy using the Xception model via transfer learning.
- Enhanced model interpretability by integrating Gemini 1.5 Flash to generate saliency maps, highlighting regions influencing tumor classification.

### **Customer Churn Prediction App | GitHub | Live Demo**

[Oct 2024]

- Developed a full-stack churn prediction platform using Streamlit, Replit, and machine learning models (XGBoost, Random Forest, KNN).
- Enhanced model accuracy from 75% to 85% through feature engineering and SMOTE for handling imbalanced data.
- Embedded Groq API to automate personalized email generation and provide tailored churn explanations.
- Visualized customer metrics with Plotly to help interpret churn probabilities, aiding in proactive retention strategies.

# Phonicsjoy: Phonics Teaching Website | Github | Live Demo

[Sep 2024]

- Designed a phonics teaching website for kids, parents and teachers using React and Supabase, integrating real-time data for personalized learning experiences with AI-generated phonics stories.
- Improved user interaction by 20% through customized phonics learning journeys.