# PRANAV CHHABRA

[pranavchhabra.com](pranavchhabra.com) | [LinkedIn](LinkedIn) | [Github](Github) | +1 (608) 895 1403 | pranavchhabra88@gmail.com

## EDUCATION

B.S. in Computer Science with Distinction, University of Wisconsin - Madison, USA        [Graduated: May 2024] *GPA: 3.85/4*

*Relevant Coursework: Building User Interfaces, Intro to Algorithms, Intro to Operating Systems*

## DEVELOPMENT EXPERIENCE

### Headstarter AI – Software Engineer Fellow                                                                      [Summer 2024]

- Built a ***pantry tracker application*** with ReactJS, Next.js, Firebase, GPT Vision API and MaterialUI.
- Implemented ***AI-powered customer support*** solutions using OpenAI, Next.js, AWS EC2 and AWS Bedrock.
- Created ***AI-driven flashcards*** with Stripe integration, utilizing OpenAI, Tailwind CSS, Next.js, and StripeAPI.
- Developing an ***AI professor rating platform*** with RAG, OpenAI, and vector databases.

### Capital One – Capstone Partnership
### App Development Team Lead & Scrum Master                                                                  [Fall 2023]

- Spearheaded a 6-member Agile team to develop "MonsterRewards," an iOS app using Swift and SwiftUI. Integrated game-like elements to achieve a 20% increase in user engagement and enhanced customer satisfaction by 10% through innovative UI/UX design with Figma.
- Applied Agile methodologies, managed daily stand-ups, sprint planning, and retrospectives using JIRA, reducing project timelines by 15% and boosting productivity by 10%.
- Optimized MongoDB queries and integrated AWS services for scalable backend solutions, significantly improving team cohesion and project delivery success.

### RPA Developer Intern - AiRo Digital Labs                                                                      [Summer 2022]

- Engineered automation programs using UiPath and VB.NET, reducing manual task execution by 30% and saving 20 hours per week.
- Developed an automated Invoice Processing System, enhancing operational efficiency by 40% and reducing processing errors by 50%.

## COURSE PROJECTS

### Calmify AI: AI-Powered Flashcards for Emotional Support | Next.js, OpenAI, Stripe, Firebase        [Summer 2024]

- Produced an AI-driven platform that generates personalized emotional support flashcards using OpenAI's GPT models, combined with facial recognition for real-time mood detection.
- Embedded Stripe for seamless subscription management, enabling premium features and enhancing monetization, with optimized performance for fast and responsive user experience.
- Implemented facial recognition using AWS Rekognition, enhancing the personalization of the flashcards, achieving **90%** accuracy in facial emotion detection and response.

### AI-Enhanced Pantry Tracker | ReactJS, Next.js, Firebase, GPT Vision API, MaterialUI                    [Summer 2024]

- Built a pantry management app with AI-driven recipe suggestions, reducing manual item input by **80%**.
- Integrated GPT Vision API for photo-based item recognition, processing images with **95%** accuracy.
- Optimized the interface using MaterialUI, enhancing loading speeds by **50%** and ensuring a seamless user experience.

### Personal Portfolio Website | React.js, HTML, CSS, JavaScript, AWS                                          [Spring 2024]

- Constructed a secure and scalable personal website. Key technologies included S3, Lambda, API Gateway, CloudFront, and Certificate Manager.
- Deployed a serverless backend using AWS microservices such as Lambda and API Gateway, enhancing efficiency, and reducing the need for server management.
- Boosted site speed by approximately **50%** using AWS CloudFront, ensuring fast, global access.
- Amplified security through automated SSL/TLS management with AWS Certificate Manager, improving data transmission security.

## SKILLS

- **Languages & Tools:** Java, JavaScript, Swift, C, PHP, Git, JIRA
- **Web Development:** React.js, React Native, NodeJS, ExpressJS, Material UI, Next.js, Tailwind CSS
- **Databases & Cloud:** MongoDB, MySQL, AWS, Firebase, Google Cloud Platform (GCP), Stripe API, Clerk
- **AI & Machine Learning:** OpenAI, AWS Bedrock, AWS Rekognition, Spoonacular API
- **Methodologies:** Agile (Scrum, Kanban, Scrumban)