PRANAV CHHABRA

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EDUCATION

University of Wisconsin – Madison [Graduated: May 2024]

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

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

SKILLS

- **Languages & Frameworks:** JavaScript, Java, Python, Swift, SwiftUI, React, React-Native, Next.js, Node.js, Express.js, HTML, CSS
- **Backend & Cloud:** MongoDB, MySQL, AWS (Lambda, S3, EC2, CloudFront, Route 53, Bedrock, SES), Firebase, Docker, Pinecone
- **AI & Automation:** OpenAI, GPT Vision, AWS Rekognition, UiPath, Hugging Face
- **APIs & Tools:** Stripe, Puppeteer, Cheerio, Git, GitHub, Agile/Scrum, TDD

DEVELOPMENT EXPERIENCE

Software Engineering Intern - TeammateME [Jul 2024- Present]

- Developed and maintained full-stack applications using React, Node.js, and PostgreSQL, improving operational efficiency by **30%**.
- Implemented CI/CD pipelines with GitHub Actions to automate deployments, ensuring faster feature releases and improved code quality.
- Collaborated with cross-functional teams in an Agile-Scrum environment, delivering features **20%** faster while maintaining high code quality.

Software Engineering Resident - Headstarter AI [Jul 2024 – Present]

- Led the development of scalable full-stack applications, integrating real-time data processing with SQL databases to reduce query times by 50%.
- Developed *Calmify AI* using OpenAI's GPT models and facial recognition, achieving **90%** accuracy for real-time mood detection.
- Built an *AI-powered pantry management system* that automated recipe suggestions, reducing manual input by **95%**.
- Developed AI-driven features for user engagement, such as personalized recommendation engines, improving data accuracy by **80%** and highlighting creativity in AI applications.
- Implemented *AI-powered chatbot* and NLP-driven solutions to improve response times by 30%, demonstrating interest and capability in AI advancements.

Software Engineering Extern - Capital One [Sep 2023- Dec 2023]

- Developed "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.
- Integrated AWS services and optimized MongoDB queries for scalable backend solutions.
- Applied Agile methodologies, managed sprints, and delivered project **15%** ahead of schedule.

Software Engineering Intern - AiRo Digital Labs [Jun 2022 – Aug 2022]

- Developed 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

Phonicsjoy: Phonics Teaching Website | Github | Link [Sep 2024]

- Designed and developed a phonics teaching website using React and Tailwind CSS to create an educational platform for children.
- Integrated Supabase for real-time data storage and management, allowing seamless content creation and user interaction.
- Leveraged OpenAI to generate customizable phonics stories based on selected phonetic sounds, offering personalized learning experiences.

Professor Rating & Finder | GitHub | Link [Aug 2024]

- Developed Professor Rating & Finder using *Puppeteer* and *Cheerio* for web scraping and *Hugging Face* and *Pinecone* for AI-driven recommendations, improving data accuracy by **80%** and reducing average search time by **50%**, boosted user engagement by **25%**.
- Conducted code reviews and implemented software design patterns, improving code quality and maintainability.

Calmify AI: Flashcards for Mental Health Support | GitHub | Link [Aug 2024]

- Built an AI-driven platform with GPT models and facial recognition for real-time mood detection, achieving **90%** accuracy.
- Integrated Stripe API for subscription management, enabling premium features and monetization.

Pantry Tracker AI | GitHub | Link [Jul 2024]

- Designed an AI-powered pantry management system with real-time recipe suggestions, reducing manual input by **80%**.
- Optimized image recognition and performance for faster user interaction.