

# PRANAV CHHABRA

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## 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]

- Week 2: Developed a pantry tracker application with ReactJS, NextJS, Firebase, GPT Vision API and MaterialUI.
- Week 3: Implementing AI-powered customer support solutions using OpenAI, NextJS, and AWS.
- Week 4: Creating AI-driven flashcards with Stripe integration, utilizing OpenAI and StripeAPI.
- Week 5: 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

### Book Store Manager | MERN Stack

[Summer 2024]

- Developed advanced features for inventory management, seamless user authentication, and efficient order processing, enhancing overall functionality and reliability.
- Crafted a highly responsive and intuitive interface, significantly improving user experience and optimizing store operations through streamlined design.

### 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.

### ScrollHub: Web Interface for Seamless Scrolling | HTML, Node.js, Material-UI

[Summer 2023]

- Independently designed and engineered ScrollHub, employing Agile methodologies to focus on user-centric, responsive design for seamless scrolling and intuitive navigation.
- Leveraged Material-UI to create a responsive and visually appealing user interface, streamlining the development process and ensuring cross-browser compatibility.
- Employed front-end technologies like HTML and Node.js, prioritizing scalability and performance optimization for future enhancements.

## SKILLS

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