

PRANAV CHHABRA

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SUMMARY

Engineer passionate about building real-world AI products and full-stack systems. I turn ideas into production-ready apps, from LLM evaluation tools to AI learning platforms and brain tumor classifiers. Skilled in building and scaling production-ready application across diverse sectors.

EDUCATION

University of Wisconsin – Madison

[Graduated: May 2024]

B.S. Computer Science with Distinction | 3.9 GPA

SKILLS & CERTIFICATION

- **Languages & Frameworks:** Python, JavaScript, Java, Swift, SwiftUI, React, React-Native, Next.js, Node.js, Express.js, TypeScript
- **Backend & Cloud:** MongoDB, PostgreSQL, MySQL, AWS (Lambda, S3, EC2, CloudFront, Route 53, Bedrock, SES), GCP, Firebase, Docker, Pinecone
- **AI & Automation:** OpenAI, Hugging Face, GPT Vision, AWS Rekognition, UiPath, Puppeteer, Cheerio, RAG, Groq API
- **Tools & Methodologies:** REST APIs, Stripe, Groq API, TDD, Agile, Github Actions
- **Certification:** AWS Certified Cloud Practitioner

DEVELOPMENT EXPERIENCE

Software Engineering Resident – *Headstarter AI*

[Jul 2024- Dec 2024]

- Developed a GitHub pull request summarization tool with multi-language support (Python, JavaScript, TypeScript), syntax validation, and automated context extraction, streamlining code reviews and developer workflows.
- Launched a RAG-powered professor rating platform that improved search quality and personalized recommendations.
- Built an AI-driven pantry manager suggesting recipes from pantry inventory and images, cutting manual input by ~90%.
- Designed a Market Anomaly Detector for early financial trend spotting using AI-driven models.
- Created a real-time AI customer support agent by combining OpenAI APIs with AWS Bedrock.

Software Engineering Intern - *TeammateME*

[Jul 2024- Dec 2024]

- Developed and maintained full-stack application and mobile app using React, Node.js, and PostgreSQL, improving platform functionality and user experience.
- Set up CI/CD pipelines with GitHub Actions, speeding up deployment cycles and improving release stability.

Software Engineering Extern - *Capital One*

[Sep 2023- Dec 2023]

- Created “MonsterRewards,” an iOS app using Swift and SwiftUI that boosted user engagement by ~20%.
- Optimized backend queries with MongoDB and AWS services, improving app reliability and speed.
- Managed Agile sprints, delivering project milestones ~15% ahead of schedule.

Software Engineering Intern - *AiRo Digital Labs*

[Jun 2022 – Aug 2022]

- Automated invoice processing workflows using UiPath and VB.NET, reducing manual data entry effort by ~70%.
- Designed and deployed a custom RPA solution, cutting invoice turnaround time by several hours and improving processing accuracy.

PROJECTS

Captionator | [Website](#) | [App Store](#)

[Feb 2025 – Mar 2025]

- Launched an AI-powered tool that crafts customized social media captions and hashtags based on style, tone, and length preferences, saving users manual effort. (*Next.js, OpenAI, Tailwind CSS*)

LLM Evaluation Platform | [GitHub](#) | [Live](#)

[Jan 2025]

- Built a platform to evaluate LLMs like GPT-4, Llama-70B, and Gemma2-9b in parallel, cutting manual testing time by ~80%. Integrated Recharts for real-time analytics. (*Next.js, TypeScript, OpenAI*)

NeuroLens: Brain Tumor Classification | [GitHub](#) | [Live](#)

[Nov 2024]

- Developed a CNN model achieving ~94% MRI classification accuracy; boosted to ~99.5% using Xception via transfer learning. Integrated saliency maps for interpretability. (*Python, TensorFlow, Gemini 1.5 Flash*)

Customer Churn Prediction App | [GitHub](#) | [Live](#)

[Oct 2024]

- Created a Streamlit app predicting customer churn, improving model accuracy from 75% to 85% with SMOTE and feature engineering. Added personalized churn explanations using Groq API. (*Streamlit, XGBoost, Plotly*)

Phonicsjoy: Phonics Teaching Website | [Github](#) | [Live](#)

[Sep 2024]

- Created a phonics teaching website generating personalized AI-driven stories, worksheets, and flashcards for kids to support reading and practice activities, boosting learning engagement by ~20%. (*React, Supabase, OpenAI*)