

Pranav Chhabra

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EDUCATION

University of Wisconsin – Madison
Bachelor of Science in Computer Science

May 2024
GPA: 3.9/4.0

EXPERIENCE

University of Wisconsin – Madison

Jul 2024 – Jul 2025

Honorary Research Fellow - Department of Computer Sciences

Madison, WI

- Audited 120+ serverless repos; trimmed IAM policies by 45%.
- Built a Lambda cold-start predictor; cut median latency 30% (5 k runs).

Headstarter AI

Jul 2024 – Apr 2025

Software Engineer

Remote

- Developed a GitHub pull request summarization tool with multi-language support (Java, JavaScript, TypeScript) using Spring Boot, with emphasis on clean architecture and scalable design
- 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
- Architected and deployed services following a microservices pattern, including data fetching, caching, and logging layers across multiple AI-powered projects

TeammateME

Jul 2024 – Dec 2024

Software Engineer Intern

Austin, TX

- Built full-stack features using Java, Spring Boot, React, and PostgreSQL, designed microservices with REST APIs and improved frontend performance using React and Redux
- Contributed to a CI/CD pipeline using GitHub Actions and Jenkins, enabling faster and more reliable deployments

Capital One

Sep 2023 – Dec 2023

Software Engineer Extern

Madison, WI

- Created MonsterRewards, an iOS app using Swift and SwiftUI that boosted user engagement by **20%**
- Worked in an Agile environment using CI/CD, Java, and AWS; collaborated on backend query optimizations using MongoDB and integrated features via REST APIs

AiRo Digital Labs

Jun 2022 – Aug 2022

Software Engineer Intern

New Delhi, India

- 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

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

(Python, Streamlit, XGBoost)

- 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

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

(Python, TensorFlow, SQL)

- Developed a CNN model achieving **~94%** MRI classification accuracy; boosted to **~99.5%** using Xception via transfer learning. Integrated saliency maps for interpretability, providing data-driven insights into model decisions

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

(Next.js, TypeScript, Python, Recharts)

- 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

TECHNICAL SKILLS

Languages & Frameworks: Java, Spring Boot, Hibernate, JPA, JavaScript, TypeScript, React, Angular (familiar), Redux, React Native, Next.js, Node.js, Express.js, Swift, SwiftUI, C

Backend & Cloud: MongoDB, PostgreSQL, MySQL, AWS (Lambda, S3, EC2, CloudFront, Route 53, Bedrock, SES), GCP, Firebase, Docker, Pinecone

AI & Automation: OpenAI, Hugging Face, AWS Rekognition, UiPath, Puppeteer, Cheerio, RAG, Groq API

Tools & Methodologies: Redis, REST APIs, Stripe, Groq API, TDD, Agile, GitHub Actions

Certification: AWS Certified Cloud Practitioner