

# Pranav Chandrasekhar

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## EDUCATION

### Indiana University, Bloomington

*Bachelor of Science: Computer Science, Minor in Informatics*

Bloomington, IN

Aug. 2023 – May 2027

*Course Work:* Software Systems in Java, Data Structures & Algorithms, Discrete Math, System Programming with C & Unix, SQL Programming

## EXPERIENCE

### Stanford Accelerator for Learning

*Software Engineer Intern*

May 2025 – Present

Palo Alto, CA

- Built a teacher dashboard with 15+ interactive features including real-time student progress tracking and automated PDF generation; implemented Redux state management for 8+ data types and created 12+ reusable components, resulting in 40 percent faster teacher workflow and enabling analytics for 50+ student metrics.
- Utilized Smol Agent, an AI-based autonomous browser testing tool, to simulate end-to-end user flows via custom prompt engineering, enhancing early-stage UX validation and reducing manual QA time.

### SpedTree

*Software Engineer Intern*

May 2025 – July 2025

Remote

- Deployed a DALL-E 3 powered image generation API for AI worksheets, enabling visual-based learning tasks across K–8; reduced worksheet creation time from 1 hour to under 5 minutes and launched feature in 3 school pilots.
- Engineered a GPT-4o-mini backend chatbot using OpenAI and MongoDB to support real-time queries on student data (IEP progress, attendance, worksheets), laying the groundwork for scalable educator-facing AI tools.

### Stanford Institute for Human-Centered AI

*Undergraduate Research Assistant*

June. 2024 – August 2024

Palo Alto, CA

- Researched KAI, an AI co-pilot platform supporting students with learning differences, by developing adaptive scaffolding strategies and Universal Design for Learning (UDL) features, which resulted in reduced interface clutter
- Tested KAI in 5 schools and collected behavioral data on student-AI interaction; implemented a classification pipeline to identify learning profiles and improved front-end reliability by refining UI components based on testing

## PROJECTS

### Auto Slate | *FastAPI, OPENAI GPT-3.5-turbo, OpenAI Whisper API, Twilio, PostgreSQL, Railway, Docker*

- Developed an AI restaurant phone agent using OpenAI GPT-3.5-turbo, Twilio Voice API, and ElevenLabs, serving 4 active restaurants with 100% automated customer service for reservations, menu questions, and business hours.
- Built and deployed a restaurant system using FastAPI, PostgreSQL, and Docker, implementing speech processing and conversation memory, achieving zero-downtime deployment on Railway with 80% faster production time.

### DocuSynth AI(Nvidia AI Agent Hackathon) | *Next.js, FastAPI, NemoTron 49B, Nvidia Brev*

- Accomplished 50% faster documentation generation and 75% reduction in memory usage by implementing NVIDIA Nemotron Super 49B with 8-bit quantization and GPU acceleration on NVIDIA Brev instances.
- Accomplished 90% user satisfaction and 3x faster codebase understanding by developing a full-stack documentation generator using Next.js, FastAPI LangChain, and deploying as a one-click launchable on NVIDIA Brev with real-time.

### Worksheet Generator | *MongoDB, Express.js, React.js, Vite, Node.js*

- Built an AI-powered worksheet generation system using OpenAI GPT-4o-mini and DALL-E 3; implemented 100 images per user per month quota tracking and generated exactly 3 questions per worksheet
- Developed a React frontend with 12 educational categories and per-question image generation; reduced worksheet creation time from manual design to automated generation in under 30 seconds

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, C++, Node.js, Go

**Frameworks:** Flask, Next.js, Express.js, React, Spring Boot, Fast

**Libraries:** React.js, Deepface, Matplotlib, OpenCV, Base64, MongoDB

**Activities/Certifications:** Alpha Kappa Psi Business Fraternity(AD of Tech), AWS Certified Cloud Practitioner