

# Pranav Chandrasekhar

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## EDUCATION

### Indiana University, Bloomington

Bachelor of Science: Computer Science, Minor in Informatics

Bloomington, IN

Aug. 2023 – May 2027

*CourseWork:* Software Systems in Java(OOP Principles), Data Structures & Algorithms, Discrete Math, System Programming with C & Unix, SQL Programming

## EXPERIENCE

### Aurus.ai

Sept 2025 – Nov 2025

Software Engineer

Sacramento, CA

- Reduced loan processing time by 85% (3–5 days → 2–4 hours) by architecting Python + FastAPI ETL pipelines with LangChain and Azure OCR, automating identity resolution, income verification, and fraud detection across 100+ loan documents weekly in a secure cloud production environment
- Improved data accuracy by 90% and scaled throughput 10x by engineering a multi-agent orchestration system with Redis/Celery, PostgreSQL schema design, and JWT-secured APIs integrated into CRM workflows

### Stanford Accelerator for Learning

May 2025 – Sept 2025

Software Engineer Intern

Palo Alto, CA

- Accelerated teacher workflows by 40% by building a scalable analytics dashboard (Redux + SQL-backed APIs) to visualize, analyze, and report on 50+ classroom performance metrics, strengthening data quality, reporting insights, and cross-environment consistency
- Reduced manual QA time by 30% by implementing automated browser testing, custom API validations, and CI/CD pipelines, improving data reliability and observability in production releases

### SpedTree

May 2025 – July 2025

Software Engineer Intern

Remote

- Reduced worksheet prep time by 90% (1 hr → 5 mins) across 3 pilot schools by deploying secure DALL·E 3 APIs with GPT-4o-mini pipelines, ensuring consistent formatting and accessibility in special-education use cases
- Increased educator adoption by 35% by engineering MongoDB-backed microservices with per-user rate limits, enabling scalable API queries and real-time data workflows for personalized instruction

## 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.
- Coordinated development in Agile sprints with GitHub version control, deploying a functional MVP in 24 hours and optimizing inference on NVIDIA GPUs for scalable real-time performance

### DataForge | FastAPI, PostgreSQL, Apache Kafka, Redis, LangChain, Streamlit, Scikit-learn, Pandas & NumPy

- Delivered 40–85% query performance improvements by building an AI-powered SQL optimizer with GPT-4 + LangChain, automated schema migration, and Redis caching layered over PostgreSQL and Kafka streaming.
- Increased system reliability to 99.95% uptime by deploying Dockerized microservices with CI/CD pipelines (GitHub Actions), role-based access control (RBAC), and enterprise-grade monitoring via Prometheus, Grafana, and Sentry.

## TECHNICAL SKILLS

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

**Frameworks:** Spring Boot, Flask, Next.js, Express.js, React, FastAPI, Langchain, Scikit-learn

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

**Cloud/DevOps:** AWS Certified Cloud Practitioner, Git, Docker, Agile/Scrum

**Extracurriculars:** Alpha Kappa Psi Associate Director of Technology(Business Fraternity)