

Pranav Gunjala

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EDUCATION

University of Florida

Expected May 2028

Bachelor of Science in Computer Science | GPA: 3.90/4.00 | Certificate in AI

Relevant Coursework: Data Structures & Algorithms, Engineering Statistics, Operating Systems, Computational Linear Algebra

EXPERIENCE

Florida Community Innovation Foundation

Oct. 2024 – Sep. 2025

Back End Developer Intern

Remote

- Designed and built RESTful APIs (Node.js/Express) powering the Florida Resource Map connecting social workers to 800+ statewide resources; engineered custom data validation pipelines across large-scale datasets.
- Deployed a LangChain-based automated workflow that scraped nonprofit data, extracted and cleaned key attributes (location, services, mission, contact info), and standardized records for accurate mapping and reliable public access.
- Optimized category-based filtering by refactoring SQL query logic and data structures, improving API response time by 25%.

Virtual Learning Lab — University of Florida

Jan. 2025 – Apr. 2025

Undergraduate ML Research Assistant — Project Align

Gainesville, FL

- Developed Project Align for Storiza, an AI-powered literacy platform for K–2 students, building a Flask-based ML pipeline that generates early-reader stories and evaluates curriculum alignment across 120 UFLI lessons using LLM-integrated workflows.
- Engineered a PCA-based alignment metric using 17 linguistic features; trained XGBoost models with 5-fold cross-validation, achieving 92% accuracy on validation and 74% accuracy on 1,200 benchmark stories.

Virtual Learning Lab — University of Florida

May 2025 – Dec. 2025

Full-Stack Developer — Project FUNLIT

Gainesville, FL

- Developed Project FUNLIT for Storiza, designing the gamified saga and flex points system that turns UFLI-aligned reading into interactive story “quests” for students; implemented a saga-based narrative system with 3 sagas of 3 chapters each, where plots adapt based on prior chapters and student choices.
- Built the underlying flex points framework to track characters, settings, and key events across chapters, ensuring coherent story continuation and meaningful comprehension checks.
- Supported backend and AI integration (Flask + OpenAI/UF Navigator) from 120 UFLI lessons to generate stories, questions, and visuals that can be used directly in classroom and intervention settings.

PROJECTS

JuggleIQ | Hacklytics 2026

Feb. 2026

- Built a full-stack AI soccer juggling coaching tool (Python FastAPI, OpenCV, NumPy, React/Vite) deployed on Kaggle GPU, demonstrating end-to-end ML model deployment in a cloud-native environment.
- Engineered a real-time CV pipeline combining YOLO detection, Kalman filter smoothing, and MediaPipe pose estimation to classify actions and compute statistical rhythm metrics.

Tremor Trace | H2AI Hackathon (\$1,500 Award) — Winner

Mar. 2025

- Developed a Next.js digital therapy platform for Parkinson's patients, integrating Google Vertex AutoML and custom scoring for multimodal handwriting analysis.
- Built a spiral calibration pipeline on the platform that combines AutoML inference with statistical scoring to produce a 0–100 tremor-severity score from patient drawing data, with images and assets stored in Amazon S3.

Mindful | UC Berkeley AI Hackathon

Jun. 2025

- Built a full-stack mental wellness platform (Next.js, Go) with journaling at the center: voice-to-text, searchable history, and review, integrated with a Vapi AI voice assistant for conversational, hands-free input and therapy-style support.
- Fed journal transcriptions into Gemini to recommend therapy sessions and corresponding events in Google Calendar, enabling agentic scheduling grounded in what users wrote or spoke.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, TypeScript, C++, Go

AI / ML Frameworks: scikit-learn, XGBoost, PyTorch, NumPy, Pandas, OpenCV, YOLO, MediaPipe, AutoML (Vertex AI)

Agentic & LLM Tools: LangChain, Gemini AI, Vapi, Prompt Engineering, LLM-integrated pipelines

Cloud & Data Platforms: AWS (EC2, S3, Lambda), Google Cloud (Vertex AI, Gemini), Firebase, Snowflake

Frameworks & Tools: FastAPI, Flask, Node.js, Express.js, React.js, Next.js, MongoDB, Git, Postman