

Kailash Shankar

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EDUCATION

University of Florida

Bachelor of Science in Computer Science, Minor in Linguistics

Gainesville, FL – **GPA: 4.00**

December 2027

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Info & Database Systems, Software Engineering

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, TypeScript, SQL, HTML/CSS, MATLAB

Frameworks/Libraries: React, Next.js, Node.js, Supabase, PostgreSQL, Tailwind, Prisma, Leaflet

AI/Platforms: Google Gemini API, multimodal LLM pipelines, agentic tool-calling, LTI 1.3/OIDC, Vercel, Docker, Linux

EXPERIENCE

Founder & CEO

Jan 2026 – Present

Lingua – linguaclassroom.com

- Built and shipped an **AI learning management system** for world-language classrooms, piloted with **200+ students and teachers** and auto-grading **1,500+ submissions**; now live at its first fully-approved school
- Identified that the platform required a **district data privacy agreement** before student use, voluntarily disabled all student access, and authored a full **FERPA/COPPA compliance program** (privacy policy, subprocessor list, data flow map, breach response plan), securing the first school approval
- Drove product direction from **teacher interviews**, shipping handwritten photo submission, per-section deadlines, and print/export mode for teachers; modeled per-student pricing against **\$3.27/student/yr** inference cost
- Led go-to-market across **5 Florida district world-language leads** and 10+ independent schools; won **3rd place** at ITServe Startup Cube and selected to present at national Synergy event; presenting at **FFLA state conference** (Oct 2026)

AI Product Builder Intern

Jun – Jul 2026

GlobalLogic

- Designed, built, and shipped **Potentia**, an end-to-end agentic AI learning management system
- Shipped a production deployment with **CI-enforced quality gates** and a complete technical specification for handoff
- Selected for technical workshops on topics such as **Agentic AI** and **AI-Driven Development Lifecycle (AIDLC)**
- Delivered a final product demo and technical Q&A to GlobalLogic engineering leadership, defending architecture decisions

Undergraduate Researcher, University Scholars Program

Aug 2025 – Present

UF Computational Linguistics Lab

- Investigated **LLM generalizability** via cross-lingual partitioning of morphologically segmented data across diverse language families to enhance zero-shot performance on low-resource languages
- Benchmarked **CRF model performance** across 11 typologically distinct languages on **UF HiPerGator**, analyzing the impact of massive multilingual scale on cross-linguistic transfer and model generalization
- Quantified **model robustness** by systematically injecting artificial annotation errors into training sets to empirically model the trade-off between data scale and annotation noise

PROJECTS

Lingua | *Next.js 16, React 19, Supabase/PostgreSQL, Google Gemini, LTI 1.3*

Jan 2026 – Present

- Engineered **multimodal grading pipelines** across **9 assignment types**, scoring recorded speech, photographed handwriting, and free-response text against teacher rubrics, with **model routing** reserving heavier models for rubric grading
- Built **Deo**, a teacher-facing agent running an **LLM tool-calling loop** with **NDJSON** progress streaming, solving confirmation flows, ownership checks, and **all-or-nothing transactional creation** so partial writes never reach students
- Implemented **LTI 1.3 / OIDC** integration with Canvas: **JWT** launch verification, signed-state tokens, single-use nonce replay protection, and **OAuth2 client-credentials** grade passback via LTI Advantage AGS
- Migrated tenant isolation from application-layer checks to **Postgres Row-Level Security across 31 tables**, using **SECURITY DEFINER** helper functions and service-role RPCs for cross-tenant reads a policy cannot express
- Built **rate-limit admission control** via a Postgres RPC claiming per-minute model slots, preventing **429s** during peak classroom submission windows

Potentia | *Next.js 16, React 19, TypeScript, Supabase, Gemini, mathjs* (GlobalLogic)

Jun – Jul 2026

- Architected a **composable assignment canvas** using an agentic loop via **Human-In-The-Loop (HITL)** collaboration, letting teachers assemble arbitrary assignments across any subject instead of binding each to a fixed template
- Designed a **unified grading pipeline** routing every response through one of three lanes: deterministic scoring, **symbolic math equivalence**, and LLM rubric grading
- Built an **asynchronous grading worker** claiming batches with a bounded retry state machine, so a model outage degrades to delayed grading rather than lost submissions
- Implemented a **per-attempt snapshot model** freezing assignment content at submission start, letting teachers edit published assignments without disturbing in-flight or already-graded student work