

# Kevin Jacob

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## EDUCATION

### Bachelor of Science in Computer Science

May 2027

Georgia Institute of Technology, Atlanta, GA

GPA: 4.00

- Concentrations: Artificial Intelligence and Theory
- Courses: Intro to AI, Computer Organization, Robotics and Perception, Data Structures and Algorithms, OOP

## EXPERIENCE

### Software Engineer Intern

May 2025 – July 2025

Vantaca + HOAi (YC W22)

Wilmington, NC

- Developed a LangGraph-powered agent triggered on Jira updates that auto-generates documentation by analyzing PRs and retrieving internal context via semantic search, accelerating doc workflows by 3× across 50+ tickets/week
- Resolved validation bugs in TypeScript CLI for AI stack onboarding, preventing misconfigurations for 40+ engineers
- Deploying hosted MCPs via Azure App Services with custom OAuth for secure LLM knowledge access by 200+ staff

### ML Research Intern

May 2023 – Present

Assistive Intelligence Lab - Georgia State University

Atlanta, GA

- Developed NRA-Embed, a noise-robust annotator embedding method combining annotator-aware representations with robust contrastive loss, boosting performance on NLP classification tasks by up to 12% F1 over prior SOTA
- Led EMNLP '25 submission on separating annotator disagreement from annotation noise in subjective classification
- Deployed scalable ML pipelines across 1-12 GPU setups, reducing training time by 80% on on-premise clusters

### Software Development Project Manager

Dec 2024 – Present

Alpha Kappa Psi Business Fraternity - Georgia Tech

Atlanta, GA

- Engineered full-stack web app in Rust, AWS Lambda, React, and MongoDB to track event attendance for 300+ users
- Developed features for real-time attendance, commenting, & interview scheduling to streamline recruitment processes
- Leading Agile workflows for a 9-engineer team, improving development velocity and cross-team collaboration

## PROJECTS

### MedMap.ai - AI ATL | CrewAI, Streamlit, MongoDB, GCP, Python

Oct 2024

- Designed 6-agent LLM CrewAI system to analyze patient history/symptoms, routing cases to 3 specialties in <10s
- Developed Streamlit & MongoDB Atlas app for real-time symptom input and specialist routing with 95% accuracy
- Created RAG-enabled agents for medical diagnosis and bias detection, reducing demographic disparities in care

### Gesture Driven LLM - HackGT | Python, Javascript, HTML/CSS, Firebase, Gemini

Sep 2024

- Engineered Flask app to aid communication for nonverbal users with Python, HTML, CSS, JavaScript, and Firebase
- Built MediaPipe-Gemini pipeline, translating 25 hand gestures into natural language replies with 90% accuracy
- Implemented RAG with LangChain for personalized responses from Firebase profile with sub-5s response time

### Refreshable Braille iOS App | Swift, OCR

Sep 2022 – Feb 2023

- Built iPhone app in Swift converting text to braille using haptic feedback, reaching 85% readability in user testing
- Designed 3D-printed navigation guide to assist app usage, improving readability accuracy from 50% to 85%
- Enabled text input via camera (OCR) and keyboard, expanding accessibility options for visually impaired users

## LEADERSHIP

### Senior Intern & Community Outreach

Jan 2022 – Jul 2024

Asian Student Alliance, Lawrenceville, GA

- Crafted educational workshops with Asian Google Network to expand community partnerships by 50%
- Led leadership conferences and secured expert panel participants, increasing cultural awareness for 100+ students

## SKILLS & HONORS

**Programming:** Python, Java, C, Rust, Swift, JavaScript, React, SQL, Flask, Firebase, MongoDB, Azure, GCP, AWS

**Machine Learning:** PyTorch, LangChain, LangGraph, CrewAI, Ollama, Jupyter, OpenCV, Scikit-learn, Pandas, Seaborn

**Honors:** National Merit Scholar (\$2500); 2nd Place (\$1500) & National Qualifier, GA JSHS; Best Solo Hack, HackGwinnett; Selected for NVIDIA/GT LLM Bootcamp