

Josue Godeme

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Education

Tsinghua University, Schwarzman College (Beijing, China)

Incoming August 2026 – Expected July 2027

Master of Global Affairs, Schwarzman Scholar

Dartmouth College (Hanover, NH)

September 2022 – Expected June 2026

Bachelor of Arts, Major in Computer Science, Minor in Chinese, Minor in International Studies

GPA: 3.79

Awards: King Scholar (1/7 of 28K+), Stamps Scholar (1/7 of 400K+), Bosworth Award for Excellence in International Affairs (1/4)

Exchange Semesters: Beijing Normal University (Chinese Studies, 2025); AIT Budapest (Computer Science, 2024)

Leadership: Co-President, National Society of Black Engineers and CoderDojo; Executive Board, African Student Association

Experience

Bylaw (*stealth; making AI agents follow the law*)

July 2026 – Present

Research Engineer Intern

- Translate written regulation into enforceable policies a machine can check, working from official statute text with every rule traceable back to the provision it came from.
- Found that simple allow-or-deny rules cannot capture ongoing compliance duties, which require tracking obligations, aggregating activity over time, and meeting deadlines; specified the extra layer needed to carry them.
- Built the checker that catches hallucinated legal citations in AI-generated text, verifying each against real source documents and never accusing without positive evidence: across 3,431 citations from published court opinions, the intuitive rule would have wrongly flagged 421 real ones.

Parsimmon (*document-parsing SaaS, competitor to Reducto*)

June 2026 – July 2026

Software Engineering Intern

- Built the Parsimmon SaaS product end to end: multi-tenant FastAPI and TanStack Start application, public API endpoints, API-key management, org-scoped auth, and Stripe ledger-based billing, shipped as 13 reviewed PRs on a protected repo.
- Took the parsing engine from a local tool to a cloud service on AWS, behind a CI accuracy gate holding extraction quality at 91.7% before any merge.

Homy Robotics (*voice AI for senior-care companion robots*)

April 2026 – June 2026

AI Engineering Intern

- Built the full voice system for a companion robot that talks with seniors in their homes: real-time audio, a swappable speech-to-text, LLM and text-to-speech pipeline, and a 30-table backend.
- Fixed the two failures that had kept the robot from ever speaking: a 30-minute install on its low-memory tablet, and audio sent to an output the hardware does not have. Cut install to 2 minutes and delivered its first working conversation.
- Built the robot memory layer: reviewed durable facts paired with semantic recall of past visits, isolated per household, where retrieval speaks a bridging phrase so the conversation never stalls while it looks something up.

Echo AI (*speech-first language learning application*)

September 2024 – Present

Founder & Lead Developer

- Founded and built Echo AI end to end (speech recognition, synthesis, personalized feedback), growing to 100+ active users across multiple countries; raised \$5,000 in grants.

Dartmouth College, Department of Computer Science (Hanover, NH)

Spring 2026

Teaching Assistant, Computational Linguistics (CS72) and Introduction to Computer Science (CS1)

Research

Dartmouth Stamps Scholars Program (Hanover, NH)

June 2024 – Present

Selected Student Researcher

- Built the first-ever machine translation, speech recognition, and speech synthesis systems for Adja, an extremely low-resource West African language; achieved BLEU 22, beating OpenAI and Google baselines.
- Led creation of the first digital corpus of 10,000 French-Adja sentence pairs with 10+ local translators; published at LREC 2026 as first author; secured a \$10,000 Davis Projects for Peace grant.

Publications

- Godeme, J., et al. (2025). *Artificial Allies: Validation of Synthetic Text for Peer Support Tools through Data Augmentation in NLP Model Development*. **Proceedings of the Pacific Symposium on Biocomputing**, Hawaii, USA. (first author)
- Godeme, J., et al. (2026). *Adja-French Parallel Corpus: A New Resource for Machine Translation of a West African Under-Resourced Language*. **LREC 2026** (accepted; first author).

Skills

Languages & Tools: Python, TypeScript, Kotlin, PyTorch, Hugging Face, FastAPI, Next.js, React Native/Expo, Docker, AWS

AI & Voice: LLM agent design, tool calling, memory and retrieval, fine-tuning, ASR/TTS, LiveKit/WebRTC

Spoken: French (native), English (fluent), Chinese (proficient), Adja