ISIAH UDOFIA

Montclair, New Jersey | (973) 303-6883 | isiah.udofia@yale.edu | isiahudofia.com

EDUCATION

Yale University, New Haven, CT   **2022 - 2026**
Cognitive Science, B.S. – Neurocognitive Computation
Coursework: Full Stack Web Design, Machine Learning Applications, Neuroanatomy, Management of Software Development (Agile)
GPA: 3.7 | *Awards:* 3x MRCC Caddie Scholarship, 4x All-Ivy Team (Long Jump, 4x100), USTF Academic All-American

TECHNICAL PROJECTS

ML Research: Wearable Sleep Optimization   **August 2025 - April 2026**
Mechanisms of Disinhibition (MoD) Laboratory, Yale University (Department of Psychology)
- **Building a data pipeline with Python and ABCD Study Fitbit data** to ingest and clean HRV, sleep staging, and activity data, then training classification and regression models to predict next-day cognitive performance from nightly recovery signals
- **Running feature engineering and model evaluation** to identify the strongest physiological predictors of alertness and focus, aiming to produce actionable sleep recommendations grounded in wearable data analytics

AI-Powered Video Dubbing Platform   **September 2025 - Present**
- **Directed full-stack application development** across Next.js/React/TypeScript frontend and FastAPI backend, integrating Deepgram/OpenAI APIs for dubbing (10+ languages), STT transcription, and audio synthesis into production-grade system
- **Built end-to-end user experience** from upload through real-time language-specific progress tracking to download, optimizing for seamless multi-language dubbing workflow; integrated production-grade payment system and job management pipeline

Real-time Captioning & Translation   **July 2025 - September 2025**
Node.js, C/C#, WebSockets, Deepgram Nova-3 | https://livecalltranslator.netlify.app/
- **Designed low-latency real-time system** achieving sub-second response times with flow control and automatic reconnection mechanisms to eliminate UX friction from client lag and stream interruptions, improving product reliability
- **Leveraged AI coding tools** (Claude Code, Cursor, Codex, MCPs) as force multiplier for velocity; shipped features faster while maintaining code quality, demonstrating effectiveness of AI-native development approach to complete first end-to-end project

WORK EXPERIENCE

UBS, *Investment Banking Summer Analyst*, New York, NY   **Summer 2025**
- Trained in Debt Capital Markets team, assisting in origination and syndication of debt for investment grade firms
- Led an independent research initiative to educate team on structure and market dynamics of synthetic risk transfers

Bain and Co., *Building Entrepreneurial Leaders Internship*, New York, NY   **May 2023 - May 2024**
- Gained real-time exposure to the processes that Bain uses, included opportunity to meet and speak to consultants
- Suggested changes to client regarding use of sales team to optimize cold outreach for improved lead conversion

Blinds To Go Inc., *Supply Chain Intern*, Lakewood, NJ   **June 2022 - August 2022**
- **Worked directly with Plant Controller** to audit, proposed change to bill of materials to align to actual production
- **Bill of materials accuracy improved from 95% to 99+%** and changes were used to open new plant in Saltillo, Mexico

EXTRACURRICULAR ACTIVITIES (LEADERSHIP EXPERIENCE)

Yale Varsity Track and Field Team, *Sprinter/Jumper*, New Haven, CT   **August 2022 - June 2025**
- **Organize multi-week lifting program** geared towards summer strength improvement for short sprinters and jumpers
- Practice six times per week including commute to facilities off campus, lift twice per week
- **3th ranked all-time in Yale men's long jump list**, Finished back-to-back years top 50 in NCAA Division I in long jump

Yale Claude Building Club, *Founding Committee*, New Haven, CT   **August 2025 - Present**
- **Co-founded Yale's Anthropic-funded Claude builder community**, planning inclusive workshops and campus hackathons where students prototype AI tools, test features, and ship working builds
- Growing the community through hands-on build nights and collaborative workshops that make AI development accessible for students from CS, cognitive science, and humanities backgrounds alike

Zen Digital Agency, *Founder*, New Haven, CT   **February 2025 - Present**
- **Founded and scaled a video editing and creative services agency** with five retainer clients, delivering short-form editing, content strategy, and custom sites that align brand, visuals, and messaging across YouTube, Instagram, TikTok, and web
- **Led a full rebrand for a construction company** by building a full-stack marketing site from scratch, producing new media assets, and managing their social presence to unify aesthetic, tone, and lead funnels