

# Midhun Sai Sadanand

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## EDUCATION

### Yale University, Yale College, GPA: 3.98, ACT: 36/36

New Haven, CT

*Bachelor of Science in Computer Science, Bachelor of Arts in Economics*

*Sept. 2023 – May 2027*

- **Honors:** 4x AIME; 1<sup>st</sup> place team finish ARML; 2022 SERMACS Presenter in San Juan, PR; \$40k USTA Foundation Scholarship, for “demonstrated exceptional national leadership and tennis skills”; National Merit Finalist; Hillhouse Fellow
- **Relevant Coursework:** Multivariable Calculus, Linear Algebra, Data Structures, Algorithms, Systems Programming, Computer Architecture, Computational Intelligence for Games, Microeconomics, Macroeconomics, Mandarin II

### London School of Economics & Political Philosophy

London, UK

*2024 Summer Sessions 2, 3 (3wks per)*

*Jul. 2024 – Aug. 2024*

- **Coursework:** Intermediate Macroeconomics, Corporate Finance

## WORK EXPERIENCE

### Mana

New York City, NY

*Co-founder*

*Oct. 2024 – Present*

- Architected regulatory and technical infrastructure for Mana, a stablecoin-native neobank enabling programmable multi-currency spend, real-time FX, and compliance-neutral financial orchestration
- Designed multi-currency BIN architecture with Airwallex-FX orchestration and sponsor bank nostro settlement to enable zero-FX card spend in 60+ countries; benchmarked float buffer sizing and FX spread exposure.
- Developed Mana’s internal TigerBeetle ledger system, enabling immutable audit trails, sub-second reconciliation, and WORM-compliant AWS S3 backs with freeze on-mismatch logic.

### Lava

Birmingham, AL

*Project Intern*

*Dec. 2022 – Aug. 2024*

- Assisted in frontend design and development of the company website for Lava, a decentralized cryptocurrency wallet. Mapped user flow, implementing Framer React animations and mobile UI, while writing informative blogs & release posts.
- Edited and contributed to technical documentation of the Lava Loans Protocol v2, a Bitcoin-collateralized loan system utilizing Discreet Log Contracts (DLCs) for trustless, atomic swaps, ensuring secure collateral management, liquidation, and repayment.

### Marksman Consulting

New Haven, CT

*Co-founder & Head of Growth*

*Sept. 2023 – Present*

- Co-founded college consulting & personalized test prep service, internationally offering services to 40 high school students, earning over \$55K in profit YTD. Maintain high quality service (+195/+7 mean score increase for SAT/ACT).
- Oversee team of 7 employees; manage client acquisition, hiring, onboarding, and relations. Built comprehensive ACT curriculum and training modules for new tutors. Fully automated company accounting using JavaScript

## RESEARCH

### Neuromorphic ML Infrastructure Research | PyTorch, CUDA, Hugging Face, FAISS, SNN Torch

*Jan. 2024 – Present*

- Designed distributed training system for large-scale Liquid State Machine with custom CUDA optimizations, achieving 100x energy efficiency through memory management, gradient checkpointing, and mixed-precision training.
- Built novel embedding compression system achieving 10,000x efficiency through hierarchical binary quantization, preserving semantic relationships while scaling 512D (continuous) to 4096D (binary) with distributed H100 GPU cluster.

### Research Assistant, Blue Center for Global Strategic Assessment

*Apr. 2025 – Present*

- Supported Bill Rivers on *Coldest Peace*, a narrative history of the Korean War authored by former Rep. Mike Gallagher, current Head of Defense at Palantir

### Research Assistant, Film & Media Studies

*Apr. 2025 – Present*

- Assisted Dr. Francesco Casetti in research analyzing tech companies using Deleuze’s society of control and Foucault’s pastoral power, focusing on presentations of media benevolence and data extraction.

## ACTIVITIES

### Yale Debate Association

New Haven, CT

*Tournament Director, Development Committee*

*Sept. 2023 – Present*

- Manage tournament organization, social media presence and branding, volunteer coordination, and food delivery across international tournaments for high school and collegiate debaters. Compete in both British and American Parliamentary Debate formats.

### Design at Yale

New Haven, CT

*Graphic Designer*

*Oct. 2024 – Present*

- Led rebranding and design projects for regional Yale Clubs and student organizations, including annual Design at Yale (DAY) Book
- Designed ‘Executive ML Handbook’ and ‘Executive CV Handbook’ covers for the US Department of Defense.

### Yale Computer Society

New Haven, CT

*MajorAudit Lead*

*Sept. 2023 – Present*

- Designed and implemented MajorAudit, managing 8,000-line codebase and backend integration for a Yale degree-audit software.

## SKILLS

**Languages:** English (native), Malayalam (native), Spanish (limited working proficiency), Mandarin (limited working proficiency)

**Interests:** Media Studies, Typography, 35mm Film Photography, Powerlifting, Stationery