Aaron Kriegman

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aaah.run github.com/akriegman

Rethinking the web at Forum. Looking for collaborators.

Education

UCLA	Mathematics	PhD	Aug ‘24 -- present
Cambridge University	Mathematics	MMath and BA	Oct '20 -- June '24

Canteen manager for Cambridge Jewish Society, led volunteers to cook for 80+ people each week.

Haverford College	Math and Computer Science	Sep '18 -- May '20

Work Experience

Amazon Web Services	AI Research Intern	Summer ‘25
Symbolic Capital Partners	Software Developer Intern	Summer '22

Rewrote the infrastructure the company uses to execute all of their on-chain transactions, using Rust with Tokio and PostgreSQL.

DreamsAI	Software Developer Intern	Summer '21
Ross Mathematics Program	Counselor	Summer '20

Marked problem sets and led daily discussion sessions with a small group of campers, guiding them to investigate and discover mathematics independently.

Private Math and Physics Tutoring	Various times

Research Experience

Summer Research In Math	Cambridge University	Ronojoy Adhikari	Summer '23

Found a way to apply the Fourier Transform to Discrete Exterior Calculus in order to explicitly solve certain difference equations and speed up certain computations.

REU	Texas A&M University	Riad Masri	Summer '19
PROMYS Math Camp	Boston University		Summer '16, ‘17

Did a research project on Ulam sequences and an exploration lab on the game of Set.

Awards and Competitions

USAMO qualifier	‘17, ‘18
Putnam top 500	‘18, ‘19

Projects

Liquid Go	WebRTC, WASM, Rust, Websockets, React	liquidgo.xyz

Real time multiplayer browser game based on the board game Go.

Metrica	Unity, HLSL	youtu.be/MtrgYVnKpGE

A video game set in spherical space, i.e. the surface of a four dimensional ball.

Publications

Hamakiotes, A., Kriegman, A. & Tsai, WL. *Asymptotic distribution of the partition crank.* Ramanujan Journal 56, 803–8' ('21). https://doi.org/10.1007/s11139-021-00477-w