Zayd Krunz

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Education

BASIS Tucson North — **August 2023 - May 2027**
Tucson, AZ — High School
Cumulative GPA: 3.79/4.0 (pre-AP score integration)

- **#1 Ranked** High School in the Nation (*U.S. News & World Report*, 2025-2026)
- **SAT Score:** 1500 (>99th Percentile in the US)
- **Current AP Courses:** Calculus BC, Physics 1, Computer Science A, French, English Language, Seminar, US History
- **Previous AP Courses:** Calculus AB (5), Chemistry (5), European History (5), English Literature (5)

Skills

Programming Languages
Python, C++, TypeScript, JavaScript, Lua, PHP

Software Frameworks & Tools
Pytorch, TensorFlow, Pandas, NumPy, SciPy, PostgreSQL, Docker, Git, Bash, Linux

Experience

Shroot LLC — **Dec 2022 - Feb 2024**
Founder & Lead Developer — Tucson, AZ

- Developed a full-stack financial strategy research application using NextJS, PostgreSQL, Charles Schwab's API, and custom broker-specific authentication to execute trades autonomously.
- Engineered the complete product lifecycle from concept and UI/UX design to backend development and continuous, zero-downtime deployment to AWS.
- Ultimately, the project was put on hold to focus on academic goals.

SmartNet Communications — **September 2024 - November 2024**
Web Developer — Tucson, AZ
https://smartnetcommunication.com

- Developed and launched a dedicated site for an expert witness practice, establishing a required professional online presence for client verification.

TenByte — **August 2024 - Present**
Technical Writer — Tucson, AZ
https://tenbyte.org

- Author of monthly deep-dives on developer technologies, including technical breakdowns of open-source project management and BaaS platforms.

Research & Programs

NSF AI-EDGE Institute - Summer 2025 Undergraduate Research program — **June 2 - July 25, 2025**
https://aiedge.osu.edu

- Participated in an 8-week NSF-funded research program that is typically open only to undergraduate students.
- Evaluated performance trade-offs between Vision Transformer (ViT) and Convolutional Neural Network (CNN) models by benchmarking accuracy against training epochs and steps.
- Compiled and analyzed the nanoGPT codebase to deconstruct the foundational architecture of a transformer-based language model.

Stanford Pre-Collegiate Studies — **July 7 - 18, 2025**
Introduction to Machine Learning
https://github.com/ShrootBuck/stanford-predictive-maintenance

Engineered a predictive maintenance model by creating & evaluating 12 machine learning models, deploying a high-recall voting classifier to forecast failures and prevent costly repairs.

Languages

Trilingual (Native Proficiency in English, French, Arabic)