ANDREW ZHAO

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EDUCATION

University of Southern California Los Angeles, CA
B.S. Artificial Intelligence for Business (Marshall School of Business & Viterbi School of Engineering) *Expected May 2030*
Relevant Coursework: Python Programming, Statistics & Data Science for Business (R), Microeconomics for Business

PROJECTS

Haskap | AI Agent Development Platform (Alpha) github.com/haskap-oss/Haskap

- Contribute to a local, open-source AI development platform that turns conversational requests into planned tasks, agent-generated code changes, and independently reviewed Git workflows.
- Build desktop support and a shared, customizable interface with configurable themes, fonts, and colors plus drag-and-drop workspace layouts.
- Develop within a sandboxed workflow that isolates agent work in repository copies, validates changes through tests and independent model reviews, and gates all Git actions behind user approval.

Clickity | Open-Source AI Desktop Companion (Released) github.com/Bndrwe/clickity

- Built and shipped a cross-platform Electron desktop companion (macOS, Windows, Linux) that answers spoken questions using screen context, streams voice responses, and points to relevant on-screen elements.
- Integrated configurable cloud AI providers and local models with on-device speech recognition, persistent chat history, and personalized companions with separate memory.
- Implemented approval-gated desktop actions with screenshot verification, and automated release builds through GitHub Actions with in-app updates.

RESEARCH EXPERIENCE

University of Maryland | *Computational Mathematics Researcher (Advisor: Dr. William Gasarch)* May 2025 – Feb 2026

- Implemented and benchmarked established and original Boolean satisfiability (SAT) algorithms, comparing performance across benchmark sets of logical formulas.
- Analyzed Boolean variable assignments and explored connections between SAT and other computational problems, including the Traveling Salesperson Problem.

PROFESSIONAL EXPERIENCE

U.S. Food and Drug Administration (FDA) | *Research Intern* Jun 2024 – Jul 2024

- Processed and analyzed research data in Excel for a retrospective study of dose-finding and optimization strategies for novel fixed-dose combination drug products.
- Wrote the study abstract as first author and designed the poster presented at the FDA Annual Student Scientific Research Day (Aug 2024).

Montgomery County Economic Development Corporation | *Economic Development Intern* Jun 2024 – Jul 2024

- Researched grant programs aligned with client business needs and documented site visits to assess eligibility for county MOVE grants.

Academic Pathways | *Mathematics Tutor* Oct 2024 – Jul 2026

- Delivered individualized K-12 mathematics instruction from foundational topics through calculus, adapting explanations and practice to each student's needs.

Stonebridge Sharks Swim Team | *Swim Coach* May 2025 – Jul 2026

- Coached youth swimmers on stroke technique and supported team participation at competitive swim meets.

SKILLS

Technical: Python, R, Electron, Git, GitHub Actions, Microsoft Excel
Leadership: Team leadership, tutoring, coaching