

HAYDEN A. ARNOLD

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Education

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| Master of Science in Computer Science, Machine Learning Specialization <i>Georgia Institute of Technology</i> | December 2027 |
| Master of Science in Computational Social Science <i>Korea Advanced Institute of Science and Technology</i> | June 2026 |
| Bachelor of Science in Computer Science <i>University of Arizona</i> | May 2024 |
| • Cumulative GPA: 3.83, <i>magna cum laude</i> distinction | <i>Tucson, Arizona</i> |
| Honors Bachelor of Arts in Political Science, Foreign Affairs Emphasis <i>University of Arizona</i> | May 2024 |
| • Minors in Korean and Spanish Language • Cumulative GPA: 3.83, <i>magna cum laude</i> distinction | <i>Tucson, Arizona</i> |

Select Publications

- Arnold, H., Kim, S., & Kim, T. (2026).** How Does Toxicity Emerge in Political Livestreams? Large-Scale Evidence from Twitch. Under review at *Political Communication*.
- Yu, X., Arnold, H., Su, B., & Blanco, E. (2025).** Measuring and Forecasting Conversation Incivility: the Role of Prosocial and Antisocial Behaviors. In *Proceedings of the 19th AAAI Conference on Web and Social Media (ICWSM)*.

Work Experience

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| Prompt Engineer <i>DataAnnotation.tech</i> | 03/2024 – Present |
| • Trained LLMs through programming-focused annotation and comparative model evaluation across 300+ prompts | <i>Remote</i> |
| • Engineered adversarial prompts to stress-test model failure modes, contributing to safety and quality improvements on frontier models including Gemini 3.0 | |
| • Delivered structured feedback identifying edge cases in code generation and reasoning tasks | |
| Data Analyst Intern <i>Pima County Democratic Party</i> | 01/2024 – 05/2024 |
| • Designed and implemented quantitative data collection pipelines to track trends in 10+ voter issues across 266 precincts | <i>Tucson, Arizona</i> |
| • Applied machine learning models to predict election outcomes, achieving 80% accuracy against actual results | |
| • Communicated findings to stakeholders on policies and candidates during internal and public-facing presentations | |
| Senior Undergraduate Teaching Assistant <i>University of Arizona Department of Computer Science</i> | 01/2023 – 05/2024 |
| • Managed a team of 10+ TAs as primary liaison between professor and course staff for a class of 500+ students | <i>Tucson, Arizona</i> |
| • Drove structural and content improvements to course materials, resulting in improved student feedback scores | |
| • Coordinated top-down logistics to ensure consistent course delivery across all sections | |
| Undergraduate Teaching Assistant <i>University of Arizona Department of Computer Science</i> | 08/2021 – 12/2022 |
| • Led groups of 20+ students per semester in Python-heavy coursework, holding office hours and grading assignments | <i>Tucson, Arizona</i> |
| • Held supplemental instruction sessions of 100+ students to prepare for exam content | |

Projects

- (2025) Law School Admissions Calculator — GitHub Link, Website Link**
Predicts U.S. law school admissions results from historical data using Python, NumPy, Pandas, Scikit-learn, deployed in Vercel using Flask and Render for backend

Skills

- Skills:** R, Python (NumPy, Pandas, Scikit-learn, TensorFlow Keras, PyTorch, Matplotlib, Seaborn), Java (JavaFX, Lucene), C, SQL, JavaScript, HTML/CSS (Bootstrap), Machine Learning, Natural Language Processing (NLP), Deep Learning, Data Modeling, Data Science, Network Analysis, Statistics, Data Mining, Data Structures
- Spoken Languages:** English (native), Korean (fluent; TOPIK Level 5), Spanish (advanced; Seal of Biliteracy)