

# KYLE ORTZOW

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## PROFESSIONAL SUMMARY

B.S. CS candidate (SFSU, Dec 2026) building reliable API-driven systems and ML/LLM-powered software (rate limiting, retries/backoff, tests, encryption). Daily Linux + Docker user (home server/Raspberry Pi).

## EDUCATION

### San Francisco State University

August 2023 - December 2026

*Bachelor's, Computer Science*

- Relevant Coursework: Data Structures; Machine Structures; Software Development; Programming Methodology; Web Software Development; Probability & Statistics with Computing.

## PROJECTS & OUTSIDE EXPERIENCE

### Canvas–Notion Sync

September 2025 - Present

*JavaScript, APIs, Encryption*

- Built a Chrome extension that syncs Canvas assignments into Notion on a 30-minute schedule.
- Implemented AES-GCM encryption to protect sensitive data and credentials.
- Engineered reliability for external APIs: rate limiting (25 req/s burst; ~10 req/s sustained) and retry/backoff strategies (429 Retry-After, 409 exponential, 5xx limited retries).
- Added observability + user support: console error logging and UI error states; reduced conflicts with batching + sequential fallback.
- GitHub: [KyleOrtzow1/CanvasNotionSync](https://github.com/KyleOrtzow1/CanvasNotionSync)

### MTG Card Search Agent

July 2025 - Present

*Python, OpenAI API, PydanticAI*

- Built a multi-agent natural-language search system over 33k+ Magic cards, generating Scryfall queries from English.
- Implemented iterative refinement (up to 5 loops) with evaluator feedback and 1–10 relevance scoring.
- Improved throughput via parallel evaluation, plus deduplication + score caching (skip previously seen cards across iterations).
- Packaged as an installable module + CLI; wrote a pytest suite covering config, events, orchestrator, models, tools, and agents.
- GitHub: [KyleOrtzow1/SearchAgent](https://github.com/KyleOrtzow1/SearchAgent)

### MTGTag — Magic: The Gathering Card Functional Tagging System

August 2025 - Present

*Python, PyTorch, Transformers, scikit-learn*

- Built a pipeline classifying 33k+ cards into 81 functional labels.
- Fine-tuned DistilBERT; achieved 0.91 validation F1 with large gains from domain adaptation on card text.
- Trained on GPU (~2 hours end-to-end locally); evaluated with a holdout split (~10%) and iterated on thresholds/metrics.
- GitHub: [KyleOrtzow1/MTGTag](https://github.com/KyleOrtzow1/MTGTag)

## PROFESSIONAL EXPERIENCE

### GitHub

San Francisco, CA, USA

*Campus Expert*

October 2025 - Present

- Selected for a competitive global program focused on technical leadership, open-source collaboration, and developer community-building.

### San Francisco State University

San Francisco, CA

*Learning Assistant - Data Structures*

January 2025 - May 2025

- Supported a ~50-student course through active-learning sessions on algorithms, trees, and asymptotic analysis.
- Provided 1:1 debugging and problem-solving support; worked with the instructor to identify students needing help and improve learning activities.
- Collaborated with instructors on instructional design and assessing student understanding

### ACM @ SFSU

San Francisco, CA

*Outreach Officer*

February 2025 - Present

- Coordinating outreach and planning for a 3-day hackathon (~400 attendees); built relationships with external contacts and supported event logistics.

## CERTIFICATIONS

### Academic Applications of AI (AAAI) for Students – CSU Systemwide Academic Technology Services (Oct 2025)

*Link to certification*

## SKILLS

**Languages:** Python, JavaScript, Java, SQL, C++ (coursework), Rust (learning)

**Systems/Software:** Linux, Git, Docker, REST APIs, Chrome Extensions, debugging, encryption

**ML/AI:** PyTorch, Transformers, NLP, LLM systems, scikit-learn, evaluation/experimentation