

TYLER MCGRAW

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EXPERIENCE

Co-Creator and Software Engineer | *Chunkwise*

Oct 2025 – Present

An open-source, self-managed platform that evaluates chunking strategies and deploys ETL pipelines for RAG systems.

Read the case study at chunkwise.github.io/case_study/overview/

- Built a microservice-based backend using FastAPI, separating concerns across chunking, evaluation, and orchestration services, with standardized APIs and shared Pydantic models for type-safe inter-service communication.
- Created a uniform abstraction layer over multiple third-party chunking libraries (LangChain and Chonkie), normalizing metadata to enable consistent visualization, evaluation, and cross-provider comparison.
- Architected a scalable ETL ingestion pipeline using AWS Batch on Fargate to parallelize document chunking and embedding generation, balancing throughput with external API rate limits.
- Developed a real-time job tracking system using Server-Sent Events (SSE) to stream progress from AWS Batch document processing jobs to the client UI.
- Deployed a data persistence layer using Amazon S3 for document storage and Amazon RDS PostgreSQL (with pgvector) for embedding storage, separating experimentation and production workloads for isolation and scalability.
- Implemented a retrieval-based evaluation service that computes Precision, Recall, and Intersection over Union (IoU) metrics to quantify the semantic coherence of chunking strategies against LLM-generated ground truth.
- Built a document normalization system to sanitize multi-byte Unicode artifacts, eliminating tokenization failures in downstream embedding models and ensuring consistent evaluation accuracy.

Software Engineer | *Open Source Projects*

June 2025 – Oct 2025

- **Request Bin:** A developer tool for receiving, persisting, and inspecting HTTP requests and webhooks via a generated URL endpoint (*JavaScript, Express, MongoDB, PostgreSQL, WebSockets, AWS, Nginx*)
- **Job Hunt Assistant:** A RAG application with chat history and token management (*Python, PostgreSQL, RAG*)
- **Shopping Cart:** An e-commerce shopping cart app (*TypeScript, React, Express, MongoDB*)

High School Mathematics Teacher

July 2023 – June 2025

- Taught AP Computer Science Principles, AP Calculus, AP Statistics, AP Precalculus, and Precalculus Honors
- Founded three new AP courses, a math competition team, and a D&D club
- Led AI initiatives for students and teachers including guest speakers and workshops

SKILLS

Languages: TypeScript, Python, SQL, HTML, CSS

Frameworks: Node.js, React, Express, FastAPI, Flask

Cloud: AWS (ECS, EC2, Lambda, Batch, RDS, S3, Secrets Manager, CDK, CLI), DigitalOcean, Heroku

Other: PostgreSQL, SQLite, MongoDB, Jest, Vitest, Pytest, Git, Docker, Linux, Nginx

EDUCATION

Launch School

Sep 2024 – Oct 2025

- Multi-year, mastery-based software engineering curriculum. Learn more at launchschool.com/employers

Washington University in St. Louis

Aug 2016 – May 2020

- Bachelor of Arts in Philosophy-Neuroscience-Psychology, Minor in Computer Science
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Discrete Math