

TYLER McGRAW

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EXPERIENCE

Co-Creator and Software Engineer <i>Chunkwise</i>	Oct 2025 – Present
<i>An open-source, self-managed platform that evaluates chunking strategies and deploys ETL pipelines for RAG systems.</i> <i>Read the case study at chunkwise.github.io/case_study/overview/</i>	
<ul style="list-style-type: none">• Designed a modular FastAPI backend using shared Pydantic models to ensure type-safety across services.• Created a uniform abstraction layer over multiple third-party chunking libraries (LangChain and Chonkie), enabling consistent visualization and evaluation.• Scaled the ETL pipeline by using AWS Batch (Fargate) to parallelize document processing while managing external API rate limits to prevent throttling.• 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.• Managed data persistence with Amazon S3 for document and LLM query storage and Amazon RDS PostgreSQL (with pgvector) for embeddings and workflows.• Built an evaluation service that calculates Precision, Recall, and IoU metrics, giving users a quantitative way to measure how chunking strategies impact retrieval accuracy.• Resolved tokenization failures by building a custom normalization step to strip multi-byte Unicode artifacts from raw text before reaching the embedding model.	

Software Engineer <i>Open Source Projects</i>	June 2025 – Oct 2025
<ul style="list-style-type: none">• Request Bin: A developer tool for receiving, persisting, and inspecting HTTP requests and webhooks via a generated URL endpoint (<i>JavaScript, Express, MongoDB, PostgreSQL, WebSockets, AWS, Nginx</i>)• Job Hunt Assistant: A RAG application with chat history and token management (<i>Python, PostgreSQL, RAG</i>)• Shopping Cart: An e-commerce shopping cart app (<i>TypeScript, React, Express, MongoDB</i>)	
High School Mathematics Teacher	
July 2023 – June 2025	

High School Mathematics Teacher	July 2023 – June 2025
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Multi-year, mastery-based software engineering curriculum. Learn more at launchschool.com/employers	
Washington University in St. Louis	
Aug 2016 – May 2020	