Patrick Brown -- patrickbrown.dev

San Francisco, CA · patrickbrownai@gmail.com · (713) 294-1567 · github.com/bicrick

EDUCATION

The University of Texas at Austin

M.S. Artificial Intelligence 2025
End-to-end LLM training: data curation, training, fine-tuning, and evaluation

B.S. Electrical and Computer Engineering 2023

EXPERIENCE

H-E-B Data Platform Engineer II · Austin, TX Apr 2025 – Present

- Shipped a dependency service that starts jobs across Composer, Databricks, Argo, and Informatica
- Architected the Kafka bus that carries each of those job events on one stream
- Instrumented sensors on every pipeline so each run is published to that bus

H-E-B Data Platform Engineer I · Austin, TX Jun 2023 – Apr 2025

- Built the dashboard where data engineering, ML, and stakeholders watch pipelines, extracts, and jobs
- Tracked health, SLAs, run history, and cost across every one of those pipelines
- Released a persistent LLM that auto-digests pipeline errors and explains why the run failed
- Launched a RAG assistant over our Confluence documentation before Atlassian shipped Rovo

SELECTED PROJECTS

Reinforcement Learning

- **QWOP World Record** An optimized gym, and an agentic loop for reward shaping and exploration
- **Cart-Pole** Browser-native controllers across tens of equilibrium states, planning online

Agents

- **Agentic RL Auto Research** A Grok Bot architecture for iterating on tasks autonomously
- **Harness Bench** One model in five coding harnesses, 50 SWE-Bench Verified bugs
- **Monocle** A Chrome extension that restyles the live DOM with a local Cursor CLI

Shipped

- **Infinite Tapestry** An endless painting driven and guided by the internet
- **Notepadable** A shareable, backend-less text editor encoded in the URL

SKILLS

Languages	Python, TypeScript, others
Platform	Kafka, Kubernetes, Docker, Terraform, GCP, AWS, FastAPI, React, PostgreSQL
Dev Tools	Cursor, Claude Code, Grok Bot