Jason R Arnold

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EDUCATION

University of Colorado Boulder | Master's in Computer Science (In Progress) **2025–Present**

App Academy | Full Stack Software Engineering **2022**
Intensive 1000-hour, 24-week bootcamp specializing in modern web development

McGill University | BA Economics **2016–2021**

EXPERIENCE

Software Engineer (AI Training & Evaluation) | DataAnnotation.tech **Aug 2022–Present**

- Evaluated and debugged complex code generation outputs, specifically targeting edge cases, logic errors, and inefficient algorithms in Python and Rust.
- Authored detailed technical reasoning to justify code rankings, teaching the model to prioritize clean, maintainable code over merely functional solutions.
- Verified syntax and functionality across a full stack environment, including React hooks, Pandas, NumPy, and asynchronous JavaScript.
- Fact-checked AI hallucinations against official documentation to ensure strict adherence to API standards and deprecated method handling.

Licensed Stockbroker | TD Ameritrade **Dec 2021–Mar 2022**

- Provided Series 7 and 63 licensed financial services, handling client trades, technical support, and inquiries about financial instruments in a fast-paced environment

TECHNICAL SKILLS

Languages:	Python, JavaScript/TypeScript, Rust, SQL, HTML5, CSS
Frameworks & Libraries:	React, Redux, Flask, SQLAlchemy, Node.js, PyTorch, scikit-learn
Tools & Practices:	Git, PostgreSQL, Sequelize, TDD (Mocha, Pytest), Agile, Jupyter Notebook
AI/ML:	LLM evaluation, model training feedback, prompt engineering, data annotation, PyTorch, pandas, NumPy

PROJECTS

Stock Evaluation MLP | Python, PyTorch, Jupyter, scikit-learn, pandas, NumPy Github
Final project for Master's Machine Learning course

- Developed a custom Multilayer Perceptron using PyTorch to predict stock performance using historical market data
- Built modular pipeline with distinct stages for data cleaning, feature engineering, model definition, and evaluation
- Tuned model architecture and hyperparameters to optimize prediction accuracy and financial interpretability
- Visualized training results and performance metrics to demonstrate learning efficacy and model insights

Voice Transcription Discord Bot | Rust, Songbird, Vosk, Discord API Github

- Built a real-time voice transcription bot combining systems-level audio capture with automatic speech recognition
- Implemented Songbird for concurrent voice streaming and Vosk for local speech-to-text transcription
- Engineered modular components for audio processing, transcription logic, and Discord event handling
- Demonstrated practical NLP integration and Rust concurrency patterns in user-facing application

Storm | JavaScript, React, Python, Flask/SQLAlchemy, Node.js Live Github
Steam-inspired gaming platform

- Created a full-stack web application enabling users to purchase and review games, add friends, and chat in real-time
- Implemented a persistent shopping cart feature using PostgreSQL to ensure cross-device data consistency
- Designed highly componentized React architecture for maintainability, modularity, and scalability