

Arun Teja Reddy Kallam

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EDUCATION

B.S. in Computer Science (GPA: 4.0 • Dean's List)

Aug 2023 – May 2027

Arizona State University

Tempe, AZ

Relevant Coursework: Intro to Artificial Intelligence, Foundations of Machine Learning, Applied Linear Algebra, Data Structures & Algorithms, Probability & Statistics, Database Management, Operating Systems, Software Engineering, Object-Oriented Programming.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, GraphQL, Java, HTML, CSS

AI/LLM: LangGraph, Model Context Protocol (MCP), RAG, NLP, ChromaDB (vector database), QLoRA, Claude API, OpenAI API, PyTorch, Hugging Face

Frameworks: React, Next.js, Node.js, Express.js, FastAPI, Redux Toolkit, Streamlit

Data: Pandas, NumPy, scikit-learn, Tableau, Power BI, MySQL, MongoDB Atlas

Cloud & Tools: AWS (Lambda, ECR, API Gateway, IAM), Docker, Git, Vercel, pytest, Shopify

EXPERIENCE

Web Development Intern

Jun 2026 – Present

BYLD Commerce

Lehi, UT

- Redesigned and shipped the agency's marketing website end to end: a mobile-first single-page site in vanilla JavaScript, injected into Squarespace to achieve a fully custom design on a no-code platform.
- Built a Python build pipeline that cut site updates from full manual rebuilds to minutes.
- Shipped front-end fixes, theme customizations, and UX improvements on client Shopify storefronts.

Junior Data Analyst

Jun 2025 – Jul 2025

Food Forest AI

Philadelphia, PA

- Cleaned and validated 500+ food & beverage company profiles, turning raw scraped data into structured enrichment datasets feeding the production B2B search engine.
- Automated data quality checks in Python (Pandas) to flag missing values, anomalies, and formatting errors, cutting manual review load and keeping the ingestion pipeline supplied with production-ready data.

PROJECTS

AI Support Agent for E-commerce (*LangGraph, MCP, RAG, AWS*) | [Live demo](#) | [GitHub](#)

- Built and shipped an AI customer support agent for a Shopify store: a LangGraph state machine (intent routing, RAG retrieval, tool calling) over the Anthropic API, live on AWS Lambda + Vercel.
- Built a 53-case eval harness (deterministic graders plus a tool-grounded LLM judge), now the project's regression suite passing at 100%; used its failure analysis to drive architecture fixes and a measured model choice, 2.4x cheaper than the larger model at \$0.18 per 100 conversations with no accuracy loss.
- Layered in safety: a pre-filter that blocks prompt-injection attacks before any model call, allowlisted tools, and a grounding check that rejects any order claim not backed by Shopify data.
- Designed a custom MCP server exposing read-only Shopify Admin GraphQL tools with email-match authorization; plugs unchanged into any MCP host, including Claude Desktop.

CEFR QLoRA Benchmark: Fine-Tuned Llama 3 8B vs GPT-4o-mini (*PyTorch, Hugging Face*) | [GitHub](#) | [Model](#)

- Benchmarked a QLoRA fine-tuned Llama 3 8B against few-shot GPT-4o-mini on 6-level English-difficulty (CEFR) classification: 62.7% vs 40.8% accuracy at 24x lower cost and 3x lower latency.
- Fine-tuned with 4-bit QLoRA (transformers, peft, trl); designed the model to answer with a single token, eliminating output-parsing failures and cutting inference to 0.19s.
- Built a deterministic data pipeline over 10k expert-labeled sentences (checksum manifests, leakage audits, a single frozen test pass) to ensure reproducible, contamination-free evaluation.

Goalsetter+ (*React, Node.js, Express.js, MongoDB, Claude API*) | [Live demo](#) | [GitHub](#)

- Built a MERN goal tracker with JWT auth, sub-tasks, natural-language due dates, and overdue detection.
- Integrated the Claude API for SMART goal suggestions from plain-English input, rate-limited server-side.
- Implemented revocable public share links, a one-click demo account, and an analytics dashboard (13-week heatmap, streak tracking) hand-built in SVG from Redux state; deployed on Vercel and Render.