

REED COLLOTON

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EDUCATION

Columbia University
M.S. in Artificial Intelligence
Concentration in AI Infrastructure

New York, NY
Expected May 2028

University of Colorado Boulder
B.A. Computer Science, *magna cum laude*
Minor in Business

Boulder, CO
May 2026

Coursework: Machine Learning, AI, Database Systems, Linear Algebra, Numerical Computation

EXPERIENCE

Columbia University
Teaching Assistant, Artificial Intelligence

New York, NY
Sept 2026–Present

allGood [Startup]
AI Research Engineer Intern

San Francisco, CA
June–Aug 2026

- Designed an email categorization system that escalates to larger LLM if smaller models disagree
- Classified common emails like out-of-office with K-nearest-neighbors embedding search
- Cut API costs by 80% while increasing classification accuracy from 85% to 95%
- Authored an ML systems evaluation paper comparing classification methods

Deloitte Innovation Hub
AI/ML Intern

Cairo, Egypt
May–Aug 2025

- Built LangGraph mock-interview chatbot with targeted feedback for the UK's Jobcentre
- Migrated team backend from GCP Vertex AI to AWS Bedrock
- Designed agent to automate sprint reports and Jira board updates

RESEARCH & ACADEMIC PROJECTS

AI Reed, an Autobiographical Chatbot

Spring 2026

- RAG chatbot with a voice clone | reedcolloton.com/ai

Bashify

Spring 2026

- Smart shell that translates plain English into valid zsh commands

Climate Prediction via Satellite Imagery

Fall 2025

- Advisor: Prof. David Quigley, CU Boulder
- Convolutional kitchen sinks model predicts yearly average temperature for US grid squares
- Achieved an R^2 of 0.85, outperforming a latitude-only baseline by 28 percent

Indirect Prompt Injection Prevention

Fall 2025

- Honeypot detection of indirect prompt injection in LLM agents
- Detection agent reads HTML and allowed to run mock tools
- HTML rejected if mock tools triggered to prevent indirect prompt injection

SKILLS

AI/ML	Fine-tuning, LangChain, LangGraph, MCP, RAG, Scikit-learn, NumPy, Pandas
Frameworks	FastAPI, Flask, REST, Docker, Git, unit testing, React.js, React Native
Cloud	GCP (Google Associate Cloud Engineer), Amazon Web Services
Languages	Python, Java, C/C++, JavaScript/TypeScript, Scala, SQL, assembly
Interests	Wilderness First Responder, photography (reedcolloton.com/photos)