Reed Colloton

Mill Valley, CA | reed.colloton@columbia.edu
reedcolloton.com | linkedin.com/in/reed-colloton

Education

Columbia University — New York, NY
M.S. in Artificial Intelligence — Expected May 2028
Concentration in Infrastructure and Hardware

University of Colorado Boulder — Boulder, CO
B.A. Computer Science, *magna cum laude* — May 2026
Minor in Business
Coursework: Machine Learning, AI, Database Systems, Linear Algebra, Numerical Computation

Experience

Columbia University — New York, NY
Teaching Assistant, Artificial Intelligence — Sept 2026–Present

allGood [Startup] — San Francisco, CA
AI Research Engineer Intern — 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 — Cairo, Egypt
AI/ML Intern — 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)