

REESE THOMPSON

AI SOLUTIONS ARCHITECT · MACHINE LEARNING & NLP EXPERT · FULL-STACK ENGINEER

SKILLS

YEARS EXPERIENCE · AREA

- 5 ML & AI (RAG, LLMs, Vector DBs, NLP)
- 5 ML Pipelines (TensorFlow, Textract)
- 4 AI System Architecture
- 10+ Full-Stack Engineering
- 7 System Architecture
- 8 Team Lead & Management
- 8 Agile & Scrum (Certified)

TECHNOLOGY

YEARS EXPERIENCE · AREA

- 5 LLMs & RAG (OpenAI, Claude, Bedrock, LightRAG)
- 5 Vector DBs & Embeddings (MongoDB, Qdrant, Voyage)
- 5 ML Frameworks (TensorFlow, Textract, Tesseract)
- 10+ Python (FastAPI, Flask, Django)
- 8 AWS (ECS, Bedrock, App Runner, S3, CDK)
- 10+ TypeScript, React, Node.js
- 8 Databases (PostgreSQL, MongoDB, Redis)

EDUCATION & COURSES

University of Colorado, Boulder
M.S. Computer Science · 2026
· AI Concentration

University of Northern Colorado
B.S. Economics · 2008
· General Concentration

Google UX Design Professional
SCRUM Certified Scrum Master

CONTACT

- +1.720.212.4870
- Reese.S.Thomp@gmail.com
- <https://ReeseThompson.ai>
- Whitehaven, UK

PROFILE

Hello World! I am an **AI Solutions Architect** with 5 years of hands-on **machine learning and AI** experience on top of 10+ years of full-stack engineering, specializing in **RAG systems, ML pipelines, NLP applications**, and **AI-driven internal tooling** that delivers measurable business impact.

EXPERIENCE

Civic Plus · AI Solutions Architect · *October 2025 – Present*

- Built multiple **RAG systems** including a sales discovery brief generator and a **LightRAG & knowledge graphs** deep research platform for marketing, leveraging **MongoDB Vector DB, Qdrant**, and **Voyage AI** embeddings
- Engineered an **ML pipeline** ingesting Salesforce support tickets to classify issues and prioritize product work, plus an **AI-driven lead passing automation** that won a Stevie AI Award and saved **\$300K+ annually**
- Architected foundational AI infrastructure using **OpenRouter, AWS Bedrock, Open WebUI**, custom **MCP servers**, and **n8n**, and led company-wide AI enablement training

Department of Transportation (Castle Rock ITS)

Team Lead & System Architect · *January 2024 – September 2025*

- Built an **NLP-driven traffic event search** microservice enabling plain-English queries over live event data, returning ranked results with map context
- Drove all **AI implementation initiatives** across the organization while leading the 511 system rebuild on **React, Node.js, PostgreSQL**, and **AWS**

Meta · Senior Software Engineer III · *June 2022 – January 2024*

- Member of internal network infrastructure team responsible for redesign and implementation of fiber optic management software using **React, Relay, Flow**, and **PostgreSQL**
- Collaborated with stakeholders and built custom internal tooling

Prime Medical · Team Lead & System Architect · *May 2020 – May 2022*

- Built an end-to-end **ML pipeline** digitizing patient records across 12 clinics using **TensorFlow** for document classification and **AWS Textract** for OCR, normalization, and cataloging into a unified data lake
- Architected the full patient management system using **Ionic React, Node.js, MongoDB**, and **AWS** (ECS, RDS, DocumentDB) while serving as scrum master and team lead

Red Hat · Senior Software Engineer · *February 2017 – March 2020*

- Integrated **Adobe Target** for A/B testing, user measurement, and early **ML-driven product suggestions** across redhat.com
- Transformed a 7–8 hour manual deployment into a fully automated **CI/CD pipeline** using **GitLab, Docker**, and **Red Hat OpenShift**

[View Full Portfolio & Selected Works](#)

<https://ReeseThompson.ai>