

Roman Pisani

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rpisani.dev

EDUCATION

University of Massachusetts - Amherst

Amherst, MA, USA

BS in Computer Science

May 2026

- Relevant Coursework: Artificial Intelligence, Algorithms, Software Engineering, Data Structures & Algorithms, Computer Systems Principles, Object-Oriented Programming

WORK EXPERIENCE

Chewy

Boston, MA, USA

AI Engineering Intern

June 2025 - December 2025

- Automated AI-driven triage of pet prescriptions, cutting review turnaround time by 90% (72 hours to 6), enabling faster processing of ~ 1M monthly prescriptions.
- Engineered AWS Neptune knowledge graph linking billions of clinical records to power LLM reasoning for drug checks, recommendations, and an AI veterinary copilot.
- Productionized Python CLI package with Poetry dependency management and Docker containerization for quick deployment across SageMaker and AWS Lambda environments.
- Developed production-grade ML model (XGBoost) with 120+ engineered knowledge graph features, achieving 95% accuracy in approval-likelihood predictions.
- Built enterprise AI vision pipeline processing 50K+ veterinary documents monthly, achieving 92% extraction accuracy with automated validation scoring.

Intuit Credit Karma

Charlotte, NC

Software Engineering Intern

May 2024 - Aug 2024

- Engineered 8 cross-platform TypeScript React pages, integrating Apollo GraphQL for backend communication and adhering to federal banking security regulations to protect member data.
- Leveraged Google Cloud Analytics API to design strategic friction, deterring 1000s of fraudulent dispute attempts and saving \$20k-\$50k annually.
- Implemented complex frontend A/B testing to make data-driven decisions that cut member service calls by 10%, reducing operational costs.

PROJECTS

BulletApply

Jan 2025 - Present

- Engineered automated resume tailoring system using Python, FastAPI, and AWS Lambda to optimize application materials for ATS systems, reducing manual customization time from 15+ minutes to under 60 seconds per application.
- Created scalable backend with DynamoDB for user data persistence and S3 for resume storage, implementing RESTful APIs to support 100+ concurrent LaTeX document compilations.
- Designed hybrid NLP keyword matching system combining Aho-Corasick algorithm with LLM-powered semantic analysis via Gemini API, achieving 40% higher relevance scores compared to keyword-only approaches.

TECHNICAL SKILLS

- **Languages:** Python, TypeScript, JavaScript, SQL, Java, C++
- **Cloud/DevOps:** AWS Lambda, AWS SageMaker, AWS Neptune, Docker, Google Cloud Platform
- **Frameworks/Libraries:** React, NextJS, Flask, Apollo GraphQL, XGBoost
- **Data/ML/AI:** OpenAI API, PyTorch, scikit-learn, LangChain, LLM, RAG, Neo4j
- **Databases:** Snowflake, DynamoDB, PostgreSQL, Redis