Roman Pisani

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EDUCATION

University of Massachusetts Amherst   **Amherst, Massachusetts, USA**
Bachelor of Science in Computer Science   *December 2026*

- GPA: 3.5/4.0.
- Relevant Coursework: Artificial Intelligence, Project Management, Software Entrepreneurship, Intro to Algorithms, Software Engineering, Physical Computing, Discrete Math, DSA, Calculus I, II, III.

WORK EXPERIENCE

Chewy   **Boston, Massachusetts, USA**
AI Engineering Intern   *June 2025 – Present*

- Automated AI driven triage of routine pet prescriptions, slashed review turnaround from **72 hours to 6 hours** (10x acceleration), mitigating **$35M+** in monthly revenue loss from pharmacy delays/rejections.
- Developed a production-grade machine learning prediction model (XGBoost) utilizing 120+ engineered KG features, achieving **95% accuracy** in approval-likelihood predictions.
- Engineered AWS Neptune **knowledge graph** linking **billions** of clinical data records, powering LLM reasoning for drug interaction checks, product recommendations, and an AI-driven veterinary copilot.
- Leveraged Python API pipelines and Snowflake to ingest, clean, and standardize **800M+ records** across 500 columns of raw data for downstream analytics, ML, and LLM workflows.

Intuit Credit Karma   **Charlotte, North Carolina, USA**
Software Engineering Intern   *May 2024 – August 2024*

- Architected 8 cross-platform TypeScript React pages, integrating Apollo GraphQL for efficient backend communication and implementing strict security standards to protect member data.
- Deterred **over 1,000** fraudulent dispute attempts - yielding an estimated **$20K-$50K in savings** - by leveraging GCP analytics to drive data-informed messaging and friction-optimized UI design.
- Cut member service calls by **10%** through guided, friction-optimized pages, reducing operational costs.

LEADERSHIP EXPERIENCE

BUILD UMass   **Amherst, Massachusetts, USA**
Project Lead   September 2023 – Present

- Led team of 11 developers and 4 product managers in developing a React Native app for a nonprofit.
- Hosted workshops to upskill junior developers enabling team productivity and self-sufficiency.
- Coordinated U.S. - India development and collaborated with global stakeholders on app functionality.

PROJECTS

RocketReels
Automated Generative Media Pipeline for Short-Form Video Creation

- Designed and implemented a modular pipeline for automatic scriptwriting, voice synthesis, image composition, and synchronized subtitle alignment from minimal text input.
- Applied prompt engineering, NLP segmentation, and audio-visual mapping techniques.

TECHNICAL SKILLS

- Languages/Frameworks: Python, SQL, TypeScript, JavaScript, Java, C, C++, React, NextJS, Flask.
- Data: XGBoost, OpenCypher, pgvector, Snowflake, DynamoDB, AWS Sagemaker, LangChain.
- Cloud: AWS Lambda, AWS S3, Docker, Redis, GraphQL, AWS API Gateway, AWS Neptune.