

Roman Pisani

(he/him) | rpisani@umass.edu | (508)-440-1620

rpisani.dev | linkedin.com/in/roman-pisani | github.com/romanobro56

EDUCATION

University of Massachusetts Amherst

Amherst, Massachusetts, USA

Bachelor of Science in Computer Science

Spring 2026

- GPA: 3.64/4.0
- Relevant Coursework: Physical Computing, Discrete Math, Data Structures and Algorithms (Java), OOP (Java, Python), Calculus I, II & III, Statistics, Probabilistic Reasoning, Ethics in CS

WORK EXPERIENCE

Intuit Credit Karma

Charlotte, North Carolina, USA

Software Engineering Intern

May 2024 – August 2024

- Architected **8+** cross-device compatible **React** and **TypeScript** pages, integrating Apollo GraphQL for efficient backend communication and implementing strict security standards to protect member data
- Managed multiple simultaneous A/B experiments to optimize user experience and security measures
- Leveraged **Google Cloud Platform** to implement comprehensive page tracking, collecting and analyzing user behavior data to make data-driven decisions regarding fraudster prevention
- Reduced member service calls by **3%+** through strategic page implementation, improving in-app guidance and user experience while lowering operational costs through introducing friction

LEADERSHIP EXPERIENCE

BUILD UMass

Amherst, Massachusetts, USA

Lead Technical Developer

September 2023 – Present

- Led team migration to Next.js, teaching server and client component usage and app routing structure, enhancing project scalability and performance
- Implemented Contentful API integration, enabling non-technical users to easily update site content and improving overall site maintainability
- Adhered to clients' design proposals by implementing responsive layouts using Tailwind CSS

PROJECTS

DormBuddy

- Developed integrated IoT dorm monitoring system and web platform using **Arduino** microcontrollers, Express.js backend, and Next.js frontend with server-side rendering
- Implemented RESTful API with Node.js, leveraging Mongoose for MongoDB integration and Serial
- Developed secure user authentication system utilizing Bcrypt hashing, JWT tokens, and HTTPS/SSL encryption

RocketReels

- Engineered a python video generation application leveraging LLM, Diffusion, and TTS technologies
- Optimized image generation process using Python concurrency, reducing processing time by over 70% and driving down overall system costs
- Implemented video customization options using MoviePy and FFMPEG for advanced video editing

TECHNICAL SKILLS

- Languages: TypeScript, JavaScript, Python, Java, C, C++, Scala, RobotC
- Libraries: React, Next, Express, Tailwind, Mongoose, Bcrypt, Postgres, GraphQL, Prisma, Cypress
- Tools: Jenkins, CircleCI, Docker, BigQuery, Git, GitHub, Contentful, MongoDB, Railway