

# Richard Álvarez

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## About Me

I am a dedicated and adaptable professional with a passion for hands-on work and collaborative problem-solving. My background includes experience in IT support and construction, where I developed skills in equipment maintenance, material handling, and workflow optimization. I thrive in fast-paced environments that require attention to detail and teamwork. I am excited to contribute to SITU Fabrication's mission by supporting production and shop improvement efforts, and I am eager to grow within the company as I begin my postgraduate studies in Computer Engineering at NYU Tandon.

## Education

### New York University (NYU) Tandon School of Engineering

Master of Science in Computer Engineering

Brooklyn, New York

Aug 2025

### Kenyon College

Bachelor of Arts in Film; GPA: 3.47/4.00

Gambier, Ohio

Aug 2020 - May 2024

Minor in History and Concentration in Integrated Program in Humane Studies

- **Relevant coursework:** Senior Research Seminar, AI for the Humanities, Software Development, Programming Humanity, Data Structures & Program Design, Introduction to Programming
- **Extracurriculars:** Horn Gallery Videographer, Club Basketball, KSJP

## Work Experience

### Library and Information Services (LBIS), Kenyon College

IT Assistant

Gambier, Ohio

Sep 2023 - Feb 2024

I supported campus-wide technology needs by preparing workstations, moving office tech, and securely erasing and recycling equipment. I restocked printers daily. I demolished hard drives. I conducted classroom checks under the guidance of team members. I streamlined team projects by applying programming skills, in one instance by generating a spreadsheet of course meetings and classroom locations to determine when our techs could perform maintenance.

### Sommerlad Construction

General Contractor

Chicago, Illinois

Jun 2023 - Aug 2023

I participated in demolition projects for remodeling efforts, performed general land management tasks such as lawn mowing and simple assembly, and supported the team in meeting deadlines and adhering to safety standards.

### Fontanos Subs

Sub Artist

Chicago, Illinois

May 2021 - Aug 2021

Worked behind the counter making sandwiches, maintaining cleanliness, and ensuring efficient service. Assisted with troubleshooting online orders, ensuring customer satisfaction and smooth operations.

## Web Projects

### Machine Television Web Store | [Visit Site](#)

- Built a functional e-commerce platform using React.js, Tailwind CSS, and Node.js to serve independent filmmakers and VFX artists.
- Integrated payment processing with Stripe API and optimized UX for mobile users, resulting in a 25% increase in client engagement.

### Joaquin Morales DP Portfolio | [Visit Site](#)

- Designed and developed a dynamic portfolio site for a professional cinematographer using Next.js and Tailwind CSS.
- Implemented a custom CMS for easy content updates, including galleries and client testimonials.

### GREasyVocab Flashcards | [Visit Site](#)

- Created an AI-based tool using GPT APIs for personalized GRE vocabulary practice.
- Implemented user authentication and adaptive learning techniques to tailor flashcards to individual progress.

## Publications

### A Retrieval-Augmented Film Recommendation System | [GitHub](#) | [Digital Kenyon](#) | May 2024

- Utilized LangChain's OpenAI integration for dynamic query generation based on user preferences, demonstrating the potential for generative AI techniques in digital entertainment.
- Developed a Retrieval-Augmented Film Recommendation System using Node.js, integrating OMDb and TMDb APIs to enhance movie metadata for precise and personalized recommendations.

### Unsupervised Deep Learning and PySceneDetect Analysis | [GitHub](#) | [Digital Kenyon](#) | May 2023

- Analyzed short-format video editing trends using PySceneDetect and DNNs.
- Employed t-SNE and PCA for data visualization and pattern discovery.

## Skills

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**Hands-On Skills:** Material handling, equipment maintenance, power tools, hand tools

**Physical Abilities:** Lifting and moving up to 50 lbs, extended periods of standing

**Technical Skills:** Python, JavaScript/Typescript, SQL, inventory management systems

**Applications:** DaVinci Resolve, Adobe Suite, CAD (basic), Cinema4D

**Languages:** English (Fluent), Spanish (Intermediate)

## Certificates

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**CompTIA ITF+** *Sep 2024*

**NYU Tandon Bridge** *Mar 2025*

## References

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