Richard Álvarez

📕 +1 773 469 9726 | @ rawalvarez731@gmail.com | ♠ GitHub | ♦ raulduke.com | ♦ Chicago, Illinois

About Me

I am a seasoned programmer and competitive team leader with 17 unique open-source projects and two published papers on large language models. Currently focused on advancing into VFX and computer rendering, I aim to revolutionize visual storytelling with technology. This year, I am a judge for the BDPA High School Competition. My recent work includes developing a full-stack web application using Next.js. Outside my professional pursuits, I enjoy reading, visiting local theaters, and hiking.

Education

Kenyon CollegeBachelor of Arts in Film

Gambier, Ohio

Aug 2020 – May 2024

Minor in History and Concentration in Integrated Program in Humane Studies

- **Relevant coursework:** Senior Research Seminar, Al 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

Gambier, Ohio

IT Assistant

Sep 2023 - Feb 2024

At Kenyon College, I supported campus-wide technology needs by preparing workstations, moving office tech, and securely erasing and recycling equipment. I restocked printers daily. 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.

HSCHKChicago, Illinois

Research Assistant
Aug 2018 – Nov 2019

At the University of Chicago, I worked under Bernard Dickens III on an academic paper proposing strategies to protect against supply-chain attacks and ensure file integrity using advanced checksum technologies. I attended monthly code reviews and contributed 27 commits to the repository. This role taught me professionalism and collaboration in cybersecurity.

Publications

A Retrieval-Augmented Film Recommendation System | GitHub | Digital Kenyon | May 2024

- Utilized LangChain's OpenAl integration for dynamic query generation based on user preferences, demonstrating the potential for advanced Al and machine learning 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

Languages: English (Native), Spanish (Intermediate)

Programming: C, C++, Python, JavaScript/Node, Rust, SQL, MySQL, PHP

Technologies: Docker, DNNs (Deep Neural Networks), NLP (Sentiment Analysis, Topic Modeling), OpenCV, Linux

Frameworks Next.js, React, Tailwind, Scikit-Learn, Keras **Applications**: Davinci Resolve, Adobe Suite, Cinema4D