Richard Álvarez

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EDUCATION

Kenyon College   Gambier, Ohio
*Bachelor of Arts in Film; **GPA: 3.12/4.00***   *Aug 2020 – May 2024*
Concentration in Computing and Integrated Program in Humane Studies   *Oct 2020 – Jul 2023*

Walter Payton College Preparatory   Chicago, Illinois
High School Diploma   *Sep 2016 – Jun 2020*

WORK EXPERIENCE

Private Stock Studios   Chicago, Illinois, United States
Production Assistant   *Apr 2020 – Aug 2020*

- Assisted with both film and music production tasks, ensuring smooth operations during recording sessions and shoots.
- Coordinated with studio engineers, directors, and artists to align production schedules and meet project timelines.
- Handled equipment setup, calibration, and breakdown for various sessions, ensuring optimal audio-visual quality for recordings.
- Maintained a meticulous record of studio sessions, ensuring that all production details, notes, and changes were documented for future

RESEARCH EXPERIENCE

HSCHK   Chicago, Illinois, United States
Research Assistant   *Aug 2018 – Nov 2019*

- Joined research conducted by Bernard Dickens III at the University of Chicago aimed at pioneering preventative measures against supply-chain attacks and ensuring file integrity via file checksums.
- Played a key role in the design and implementation of a novel web browser extension, HSCHK, which automates file checksum verification over DNS.
- Actively participated in comprehensive research, gathering and compiling crucial information from various articles and papers relevant to the project's objective.
- Effectively communicated, both in writing and verbally, the design philosophy and technical aspects of HSCHK to stakeholders and team members.
- Demonstrated a strong ability to learn independently, quickly adapting to new concepts and technologies, while also showcasing proficiency in collaborative research and development.

PROJECTS

Filters and Fractals | *GitHub*

- A C project which implements a variety of image processing operations that manipulate the size, filter, brightness, contrast, saturation, and other properties of PPM images from scratch.
- Added recursive fractal generation functions to model popular fractals including Mandelbrot set, Julia set, Koch curve, Barnsley fern, and Sierpinski triangle in PPM format.

SKILLS

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

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

Languages: English (Native), Spanish (Intermediate)

Frameworks Next.js, React, Tailwind, Scikit-Learn, Keras

Applications: Davinci Resolve, Adobe Suite