

Matías Piña Aguilera

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SKILLS

Python, JavaScript, Node.js, Vue.js, p5.js, D3.js, ML5.js, HTML, CSS, Git, Google Cloud Platform, TouchDesigner, GLSL, C++, Arduino, AWS, Pandas, PyTorch, Tensorflow, Processing, Adobe Creative Suite, Unity, SQL, Blender

EDUCATION

Parsons School of Design, The New School

MFA in Design and Technology

May 2025

New York, NY

Pontificia Universidad Católica de Chile

MSc in Computer Science

July 2023

Santiago, Chile

Pontificia Universidad Católica de Chile

BSc in Design Engineering

July 2021

Santiago, Chile

WORK EXPERIENCE

Freelance

Creative Technologist

Feb. 2024 - Present

New York, NY

- Led the development of an interactive installation for Inter NYC, integrating depth cameras, TouchDesigner, Python, and GLSL to create engaging and responsive user experiences.
- Developed an interactive installation and data visualization piece employing open data from the City of New York for an exhibition at BRIC House, employing Python, Arduino and TouchDesigner.
- Designed and developed 3D assets, animations, and interactive scenes for an accessibility-focused AR app using Swift and Blender.

Parsons School of Design

Teaching Assistant

Jun. 2024 – Present

New York, NY

- Supported students in courses such as "AI, Creativity, and Social Justice," "Immersive Storytelling," and "MS Data Visualization Thesis Studio," providing guidance on technical tools, creative processes, and project development.
- Taught and assisted with a wide range of technologies, including Vue.js, D3.js, Node.js, Python, JavaScript, CSS, HTML, Arduino, Unity and TouchDesigner.
- Provided one-on-one tutoring in web development, data analysis, web scraping and interactive media, fostering practical application of skills and helping students grasp complex concepts.

Research Assistant

New York, NY

- Designed and developed an experimental drawing tool using TouchDesigner and Stable Diffusion, enabling real-time enhancement of digital sketches with AI-generated animations.
- Implemented two custom Stable Diffusion pipelines using ComfyUI and TouchDesigner, generating real-time and non-real-time animations from still images and live video feeds.

The New School

Data Scientist

Oct. 2023 – Jan. 2025

New York, NY

- Developed a course recommender web application based on text similarity using Python and NLP tools, enhancing course discovery for students and aiding faculty and administrators in curriculum optimization.
- Conducted analysis of high-dimensional student data to identify key factors influencing retention, providing actionable insights for stakeholders.
- Engineered a web scraping pipeline in Python to analyze career trends of over 4,000 alumni, automating a previously manual process.

Umine

Data Scientist

Dec. 2022 - Sept. 2023

Santiago, Chile

- Developed a predictive analytics pipeline using Python, AWS, and SQL to identify and mitigate student dropout risks, delivering actionable insights.
- Created a dynamic internal interactive dashboard using Python, SQL and CSS for exploratory analysis and real-time business insights, improving decision-making processes across the sales and operations departments.
- Led the creation of a web scraping pipeline to extract and process client data from government websites, reducing daily task time by 90%.

University of Toronto

Research Assistant

Jan. 2022 - Dec. 2022

Toronto, Canada

- Developed interpretable machine learning models (tree-based and rule-based) to forecast at-risk students, achieving performance metrics comparable to state-of-the-art architectures.
- Mentored five undergraduate students in the Intelligent Adaptive Interventions (IAI) Lab, guiding weekly assignments on data analysis and research critiques.

Quansa

Software Engineer Intern

Sept. 2021 - Nov. 2021

Sao Paulo, Brazil

- Implemented front-end solutions with JavaScript and React, improving user dashboards, site layouts, and overall platform scalability.
- Collaborated with stakeholders to identify UX enhancement opportunities, translating key requirements into actionable improvements.