

Ezequiel Cutin

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SUMMARY

Software Engineer with 3 years in full-stack development, specializing in React, Flask, and JavaScript. Skilled in Python, SQL, and AWS deployment, with experience in generative AI and SaaS product enhancement from a technical product management role.

EDUCATION

University of Michigan	Ann Arbor, Michigan
Bachelor of Science in Engineering, Computer Science	Graduated May 2024

SKILLS

Python • JavaScript • React • SQL • AWS • Flask • Node.js • C/C#/C++ • HTML/CSS • Git • Golang • Pandas • REST APIs • Linux OS • MapReduce • Computer Vision • Machine Learning/AI Models • Agile/Scrum • 3D Modeling • NLP • Assembly Language

WORK EXPERIENCE

Glenbrook Trading	Remote
Algorithm Developer	Jun 2024 - Present

- Design and optimize high-frequency trading algorithms using QuantConnect and NinjaTrader, incorporating technical analysis, backtesting (EMA, ATR), and risk management.
- Proficient in C# for quantitative algorithms, analysis, and reporting.
- Enhance data analysis visualization with Pandas, Plotly, and Matplotlib to support informed decision-making.

University of Michigan	Ann Arbor, Michigan
Teaching Assistant	Aug 2023 - May 2024

- Guided students in entrepreneurial B2B sales and innovation, covering sales strategies, intellectual property, and investment acquisition, while fostering essential soft skills in teaching, presentation, and conflict resolution.

MSH - AEON software division	Fort Lauderdale, Florida
Technical Product Management Intern	Jun 2023 - Aug 2023

- Refined a generative AI SaaS product for Hiring Managers by participating in scrum meetings, collaborating on UX design, gathering user feedback.
- Enhanced website reliability through automation testing and captcha optimization, improving system stability.
- Developed competitive analysis reports and managed user communication via SendGrid, supporting strategic decisions and boosting customer engagement.

European Innovation Academy	Porto, Portugal
Chief Technology Officer	Jun 2022 - Aug 2022

- Led the integration of fashion elements into safety helmet design, balancing aesthetics with functionality.
- Enhanced e-commerce backend systems to improve operational efficiency and user experience.
- Managed 3D helmet model production and maintained the product database for accurate customer interaction.

City of Detroit	Detroit, Michigan
Data Analyst	May 2022 - Jul 2022

- Validated housing imagery for Detroit Census compliance, ensuring accurate identification of habitable residences.
- Enhanced data accuracy, supporting equitable fund distribution based on Census data.
- Utilized advanced analytical techniques to align housing imagery with habitability benchmarks.

PROJECTS

Spotify to mp3 Converter, Personal Project	Jul 2024 - Aug 2024
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- Developed a full-stack application that downloads MP3s from Spotify, integrating with the Spotify API using OAuth authentication. Designed a user-friendly web interface with Flask for seamless user interaction.

Ticket Management Microservice, Personal Project	Jun 2024 - Jul 2024
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- Built a customer support microservice with Node.js, Express.js, and MongoDB, featuring secure authentication, role-based access, CRUD operations, and real-time notifications. Deployed endpoints on Heroku with Swagger API documentation.

Wikipedia Search Engine, University of Michigan	Apr 2024 - May 2024
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- Engineered a ReactJS search engine using Hadoop MapReduce, TF-IDF, and Google's PageRank. Deployed on AWS.

Insta485, University of Michigan	Jan 2024 - Mar 2024
<ul style="list-style-type: none"> Developed a social media platform with user authentication, photo sharing, commenting, and infinite scrolling using React, Flask, and SQLite. Deployed successfully on AWS. 	
Simple Diffusion, University of Michigan	Nov 2023 - Dec 2023
<ul style="list-style-type: none"> Developed a generative AI model using diffusion methods for lifelike floral images, optimizing efficacy through weight initialization, activation functions, and architectural depth, incorporating linear algebra techniques. 	
Custom Mapreduce, University of Michigan	Mar 2024 - Apr 2024
<ul style="list-style-type: none"> Built a Python-based MapReduce server, optimizing data processing with TCP/UDP threading, fault tolerance, and robust master-to-worker communication protocols, deepening expertise in parallel programming and networking. 	
Architectural Style Detection, IFSA, Czech Republic	Feb 2023 - May 2023
<ul style="list-style-type: none"> Improved computer vision algorithms for architectural style recognition, achieving 77% accuracy across 25 styles. 	
European Flights Web-App, IFSA, Czech Republic	Feb 2023 - May 2023
<ul style="list-style-type: none"> Built a Node.js web app for European flight details, integrating airline APIs to improve accessibility and user experience. 	
Universal Bank Customer Analysis, University of Michigan	Mar 2024 - May 2024
<ul style="list-style-type: none"> Analyzed a large customer dataset using SQL to predict personal loan uptake. Developed a 92.16% accuracy Python logistic regression model, optimizing marketing strategies for customers with CD accounts and advanced education. 	

CERTIFICATIONS

Intermediate Machine Learning, Kaggle	2024
Intro To Machine Learning, Kaggle	2024

LANGUAGES SPOKEN

- English, Native
- Spanish, Native
- First generation American from a Hispanic background
- Portuguese, Intermediate
- Acquired through experiences in Brazil and Portugal