

# Ezequiel Cutin

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## SUMMARY

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Software Developer with 2 years of experience. Proven expertise in developing and maintaining AI platforms, supporting CI/CD pipelines, and enhancing software performance with tools like React, TypeScript, C# (.NET Core), Kafka, and Docker. Strong background in full-stack solutions, predictive analytics, and quality assurance, with a focus on seamless integration and deployment.

## EDUCATION

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University of Michigan

Bachelor of Science in Engineering, Computer Science

Ann Arbor, Michigan

Graduated May 2024

## SKILLS

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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 • Docker

## WORK EXPERIENCE

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### United Wholesale Mortgage

Software Developer I

Pontiac, MI

Jan 2025 - Present

- Design and enhance new features within Bolt, UWM's AI-driven mortgage workflow platform, while ensuring stability through automation, data extraction, and system optimization.
- Develop and execute unit and integration tests, using CI/CD pipelines for seamless deployments, and collaborate on code reviews to maintain consistency and quality across frontend and backend microservices.
- Part of Bolt's developer council, setting and upholding code and quality standards across the product.
- Utilize a tech stack including React, JavaScript, C# (.NET Core), Java, YAML, Handlebars, Apache Kafka, and Docker

### Glenbrook Trading

Quant Algorithm Developer

Remote

Jun 2024 - Present

- Leverage AWS S3 for secure, scalable cloud storage to enhance trading model performance evaluation.
- Build full-stack solutions to monitor real-time model performance and optimize trading strategies.
- Develop LSTM-based RNNs and Decision Tree models using Python, TensorFlow, and PyTorch for predictive analytics.
- Implement market order systems using C# and .NET Framework, enhancing connectivity and execution efficiency.
- Enhance data visualization using Pandas, Plotly, and Matplotlib to support data-driven decisions.

### Zoox

Automated Driver/Software Operator

Miami, Florida

Oct 2024 - Jan 2025

- Operate and monitor autonomous vehicles in real-world conditions, ensuring software performance and safety standards through comprehensive data logging.
- Collaborate with engineering teams on quality assurance, executing test scenarios, troubleshooting software issues, and generating reports to enhance system reliability and performance.
- Validate and implement software updates, contributing to the continuous improvement and scalability of autonomous driving systems.

### University of Michigan

Teaching Assistant

Ann Arbor, Michigan

Aug 2023 - May 2024

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

### MSH - AEON software division

Technical Product Management Intern

Fort Lauderdale, Florida

Jun 2023 - Aug 2023

- Developed a SaaS product with generative AI to personalize interview questions and streamline candidate evaluation.
- Conducted automation testing with Testim.io, deploying CAPTCHA verification for 24/7 website functionality.
- Managed competitive analysis and user communication via SendGrid, driving customer engagement and supporting strategic decisions.

### European Innovation Academy

Chief Technology Officer

Porto, Portugal

Jun 2022 - Aug 2022

- Led backend development, 3D model production, and e-commerce optimization for a startup integrating fashion elements into safety helmets, enhancing operational efficiency and customer interaction.

### City of Detroit

Data Analyst

Detroit, Michigan

May 2022 - Jul 2022

- Conducted geospatial data analysis and machine learning-driven validation of housing imagery to ensure compliance with Census criteria, supporting accurate fund allocation and data-driven decision-making.

## PROJECTS

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### Job Application Tracker, Personal Project

Sep 2024 - Sep 2024

- Developed and deployed a full-stack job tracking app using TypeScript, Express (backend), and React (frontend). Implemented CSV/XLSX import, interactive dashboards, and integrated Mapbox for location visualization and autocomplete features. Built responsive UIs with Material-UI and Recharts, adhering to accessibility guidelines and optimizing for mobile view. Ensured secure data management with JWT authentication and PostgreSQL, implementing strong password policies with hashing and salting, and utilized Nodemailer for password recovery. Deployed the frontend to Vercel and the backend to Render for scalable cloud infrastructure.

### GoBank: Full-Stack Banking Application, Personal Project

Aug 2024 - Sep 2024

- Developed a full-stack banking platform using Go and React, featuring real-time balance updates, secure fund transfers, and detailed transaction history. Implemented RESTful APIs with PostgreSQL for user authentication, and deployed with Docker for scalable, containerized infrastructure.

### Spotify to mp3 Converter, Personal Project

Jul 2024 - Aug 2024

- 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

- 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

- 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

- 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

- 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

- 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

- 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

- Built a Node.js web app for European flight details, integrating airline APIs to improve accessibility and user experience.

## CERTIFICATIONS

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Intermediate Machine Learning, Kaggle

2024

Intro To Machine Learning, Kaggle

2024

## LANGUAGES SPOKEN

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English, Native

Spanish, Native

- First generation American from a Hispanic background

Portuguese, Intermediate

- Acquired through experiences in Brazil and Portugal