

Cathal Paz

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Ruby, SQL, HTML/CSS, LaTeX

Frameworks/Libraries/Tools: React, Redux, NextJS, Express, Flask, Django, Sequelize, Node, SQLAlchemy, PostgreSQL, Docker, Mocha, Socket.io, Amazon Web Services (AWS)

Key Skills: Git, Pair Programming, Scrum Methodologies, Agile Methodologies, Object-Oriented Programming (OOP), Test-Driven Development (TDD), Quality Assurance (QA)

EXPERIENCE

Machine Learning QA Engineer

September 2023 – Present

Scale AI

Remote

- Performing comprehensive reviews and QA testing on AI-generated code produced by Large Language Models (LLM's) such as ChatGPT and Google Bard, leading to a 99% bug-free record
- Utilizing unit, integration, and performance testing, to identify logical flaws and ensure model performance
- Developing meticulously reasoned Python code to illustrate how to effectively guide responses through prompts
- Identifying opportunities to streamline and optimize AI-generated code segments for improved execution speed

Full Stack Developer (Volunteer)

September 2023 – Present

CUBESEED Africa

Lagos, Nigeria (Remote)

- Revolutionizing African agriculture with a contract-driven marketplace that facilitates seamless agro-trade and connects smallholder farmers to markets, finance, quality inputs and services
- Improved Docker environment setup workflow for enhanced efficiency, contributing to 15% reduction in setup time
- Conducted backend Marketplace maintenance using Django, optimizing system performance and user experience
- Participated in weekly scrum meetings, collaborating with designers, project managers, and other developers

Technical Support Engineer Intern

August 2021 – May 2022

Financial Buzz Media

New York, NY

- Successfully tackled an average of 14 issues per week, effectively reducing the ticket backlog by 28%
- Executed JSON configuration diff checks, assessing the scope of the reported issue, and authored SQL queries confirming the reported issue's impact
- Tested API connections for third party integrations across client institutions using cURL, validating expected data

PROJECTS

Programazon | *Python, Flask, React, Redux, SQLAlchemy, AWS*

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- Built a full-stack, tech-focused e-commerce platform inspired by Amazon's model
- Integrated AWS S3 buckets with boto3, offloading 33% of data from the database for scalable image upload
- Incorporated a robust review system, allowing users to leave feedback and ratings on products, fostering community engagement to both shoppers and sellers
- Designed and developed 25+ REST API endpoints in the backend, utilizing Postman for tests

Slacord | *Python, Flask, React, Redux, SQLAlchemy, AWS*

[live](#) | [github](#)

- Collaborated with a team of 4 to recreate Discord, utilizing pair programming, daily stand ups, and a git workflow
- Implemented websockets with Socket.io for real-time communication, yielding an interactive user experience
- Utilized Redux to reduce latency, resulting in a 90% improvement in data retrieval and application responsiveness
- Implemented CI/CD pipelines with GitHub integration, utilizing Render for seamless code deployment

join(Up) | *JavaScript, Node, Express, Sequelize, React, Redux, PostgreSQL*

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- Constructed a coding community based application enabling users to engage in various groups and events
- Developed database table models and established scopes for frequently used queries using Sequelize ORM
- Utilized JSON Web Tokens (JWT) to ensure data security through bcrypt encryption, enhancing user authentication and safeguarding sensitive information

EDUCATION

App Academy

Software Engineering

Online

Graduated September 2023

Binghamton University

Neuroscience

Binghamton, NY

May 2021