

Cathal Paz

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, HTML/CSS

Tools/Technologies: React, Redux, Next.js, Express, Flask, Django, Sequelize, Node, PostgreSQL, SQLAlchemy, Docker, Git, Playwright, Socket.io, Amazon Web Services (AWS)

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

EXPERIENCE

Software Engineer

CUBESEED Africa

September 2023 – Present

Lagos, Nigeria (Remote)

- Designed engaging front-end interfaces using TypeScript and Next.js, featuring reusable components for improved user interactions and a consistent application-wide interface
- Employed Django ORM to optimize database queries, enabling efficient handling of over 100 concurrent users
- Converted JavaScript code to TypeScript throughout application, leveraging static typing to catch regression bugs
- Leveraged Docker containers, images, and volumes to ensure consistent development and testing environments

Machine Learning Trainer (Contract)

Scale AI

September 2023 – January 2024

Remote

- Performed comprehensive reviews on AI-generated code produced by Large Language Models (LLM's) including ChatGPT and Google Bard, resulting in a 100% bug-free record
- Developed meticulously reasoned code in Python, Java, and C++ to assess functionality and optimize code segments for improved execution speed
- Applied unit, integration, and performance testing, to identify logical flaws and ensure model performance

Technical Support Engineer Intern

Financial Buzz Media

August 2021 – May 2022

New York, NY

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

PROJECTS

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

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- Built a full-stack e-commerce platform inspired by Amazon's model, incorporated with user-friendly product selling and review features, fostering engagement to both shoppers and sellers
- Integrated AWS S3 buckets with boto3, offloading 33% of data from the database for scalable image upload
- Leveraged hashed dictionaries to store account profiles and items, simulating social features between users
- Developed and implemented 25+ REST API endpoints with Flask, utilizing Postman for tests

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

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- 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
- Deployed Redux to optimize the application's state handling, simultaneously curbing the need for prop-drilling
- 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, Computer Science

Online

Graduated September 2023

Binghamton University

Integrative Neuroscience

Binghamton, NY

May 2021