

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)

EXPERIENCE

Software Engineer

September 2023 – Present

CUBESEED Africa

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 to ensure consistent testing environments and a simplified onboarding of developers
- Implemented session cookies, creating a user experience that allows for persistent and authenticated sessions

Machine Learning Trainer

September 2023 – Present

Scale AI

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

May 2021 – August 2021

Financial Buzz Media

New York, NY

- Provided internal and external users with support on technical, operational, and account-related issues
- Tested API connections for third party integrations across client institutions using cURL, validating expected data
- Assessed the scope of reported issues, and authored SQL queries confirming the issue's impact

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