Cathal Paz

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Ruby, SQL, HTML/CSS, LaTeX
Frameworks/Libraries/Tools: React, Redux, Next.js, Express, Flask, Django, Sequelize, Node, PostgreSQL, SQLAlchemy, Git, Docker, Mocha, Socket.io, Amazon Web Services (AWS)
Key Skills: GitHub Actions, Pair Programming, Scrum Methodologies, Agile Methodologies, Object-Oriented Programming (OOP), Test-Driven Development (TDD)

EXPERIENCE

Machine Learning Trainer
Scale AI
September 2023 – Present
Remote
- Performing comprehensive reviews on AI-generated code produced by Large Language Models (LLM's) including ChatGPT and Google Bard, leading to a 99% bug-free record
- Developing meticulously reasoned code in Python, Java, and C++ to assess functionality and optimize code segments for improved execution speed
- Applying unit, integration, and performance testing, to identify logical flaws and ensure model performance

Full Stack Developer (Volunteer)
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
- Conducted back-end Marketplace maintenance using Django, optimizing system experience and business processes
- Improved Docker environment setup workflow for enhanced efficiency, contributing to 15% reduction in setup time
- Participated in weekly scrum meetings, collaborating with designers, project managers, and other developers

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*   live | github
- 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
- Paired React and Redux frameworks on the frontend, fostering smooth data flow and a robust architecture
- Developed and implemented 25+ REST API endpoints with Flask in the backend, utilizing Postman for tests

Slacord | *Python, Flask, React, Redux, PostgreSQL, 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
- Deployed 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*   live | github
- 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
Online
Software Engineering, Computer Science
Graduated September 2023

Binghamton University
Binghamton, NY
Integrative Neuroscience
May 2021