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, Mocha, Playwright, Socket.io, Amazon Web Services (AWS)
Key Skills: GitHub Actions, Pair Programming, Scrum Methodologies, Agile Methodologies, Object-Oriented Programming (OOP), Test-Driven Development (TDD), Quality Assurance (QA)

EXPERIENCE

Machine Learning Trainer
September 2023 – Present
Scale AI   *Remote*

- Performing 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
- 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

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
- 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*

- 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
- 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*   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 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*   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*