Cathal Paz

917-972-4960 | cathalpaz@gmail.com | linkedin.com/in/cathal-paz | github.com/cathalpaz | cathalpaz.com | NY, New York

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*   live | github
- 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*   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   *Graduated September 2023*

Binghamton University   Binghamton, NY
Neuroscience   *May 2021*