

# Cathal Paz

917-972-4960 | [cathalpaz@gmail.com](mailto:cathalpaz@gmail.com) | [linkedin.com/in/cathal-paz](https://linkedin.com/in/cathal-paz) | [github.com/cathalpaz](https://github.com/cathalpaz) | [cathalpaz.com](https://cathalpaz.com) | New York, NY

## TECHNICAL SKILLS

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**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

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### 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, images, and volumes to ensure consistent development and testing environments

### 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
- Successfully tackled an average of 12 issues per week, effectively reducing the ticket backlog by 28%

## PROJECTS

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### 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

[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

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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

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### App Academy

*Software Engineering, Computer Science*

Online

*Graduated September 2023*

### Binghamton University

*Integrative Neuroscience*

Binghamton, NY

*May 2021*