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# Eddie Cruz

# SOFTWARE ENGINEER/DEVELOPER

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## SKILLS

Languages: Python, Javascript, React, HTML, CSS

Frameworks & Libraries: React, Django, Flask

Databases: SQL Databases - PostgreSQL, MySQL, SQLite | NoSQL Databases: MongoDB, Redis, Cassandra, CouchDB

Tools & Technologies: Git, Docker, PyTest, Postman, Celery, GitHub Actions

Cloud Platforms: AWS & GCP

APIs & Integration: RESTful APIs, OAuth, OpenID Connect, HL7 FHIR, Smart on FHIR

Methodologies: Test-Driven Development (TDD), Continuous Integration/Continuous Deployment (CI/CD)

Security: Encryption, SSL/TLS, Authentication and Authorization

AI Prompt Engineering: Crafting effective prompts for AI models, iteratively testing and refining prompts, managing context, and ensuring ethical and user-centric design in AI interactions.

## EXPERIENCE

### **The Commons Project, New York, NY** – Software Engineer

March 2022 – May 2024

- Enhanced Smart Health Card/Smart Health Link Web Reader, a React application for scanning and rendering health data from individuals. Project was written in React, CSS, HTML.
- Designed and rolled out Production level CI/CD pipeline for a serverless backend application using GitHub Actions, introducing AWS OIDC for secure cloud operations. Optimized Lambda deployments and Docker image updates, leading to a 75% increase in deployment efficiency.
- Overhauled a large-scale data processing system, reducing the time for data source additions from 5 minutes per source to inserting 1000 sources in under 2 minutes—a 99% reduction. Leveraged Python, Django ORM, and Celery for bulk insertions and real-time error tracking, resulting in an 800% increase in available data endpoints for users.
- Managed backend system deployments to production, consistently hitting or surpassing SLAs for seamless, on-schedule releases. Diligently maintained and refined software libraries, enhancing performance and minimizing security vulnerabilities.

## The Commons Project, New York, NY – JR Software Engineer

July 2021 – March 2022

- Developed a TypeScript/JavaScript React user on-boarding carousel, significantly enhancing user experience and engagement metrics by 20%.
- Gathered and analyzed technical requirements from international and U.S. government entities for a critical application facilitating tourism and travel during COVID-19 through digital health records. Successfully translated these requirements into a functional application, ensuring contract fulfillment and exceeding customer expectations.
- Collaborated with cross-functional teams to pinpoint user experience pain points, crafted wireframes and mock-ups, and executed the coding and testing of robust solutions.
- Directed data source testing and validation in compliance with HL7 FHIR / Smart on FHIR standards, offering expert consultation on Smart Health Cards integrations for organizational partners.
- Showcased SQL expertise by executing complex queries and architecting well-organized databases, leading to optimized performance and enhanced data accessibility for strategic analysis.

## The Commons Project, New York, NY – Software Engineer Intern

March 2021 – June 2021

- Developed comprehensive monitoring and visualization dashboards in New Relic for AWS-hosted applications, leveraging AWS integration, New Relic APM, NRQL queries, and custom metrics to optimize performance tracking and incident management.
- Partnered with the customer support team to rapidly address and resolve application issues, significantly contributing to high customer satisfaction and loyalty. Provided timely responses to user inquiries, conducted thorough technical problem analysis, and effectively communicated solutions to both technical and non-technical stakeholders using various issue tracking tools.
- Collaborated with Senior Software Developers on module implementation and updates, gaining hands-on experience across the full software development lifecycle. Actively contributed to team meetings with actionable improvement suggestions, ensuring meticulous attention to detail and delivering high-quality outcomes.

## OPEN SOURCE WORK

**Verifier App:** Co-developed a widely-used open-source COVID Digital Vaccine Certificate and Test Verification app for both iOS and Android using React Native, alongside the lead developer, playing a key role in the reopening of borders and streamlining operations for various states, governments, and entities.

## EDUCATION

**John Jay College of Criminal Justice | New York, NY** – Criminal Justice

**Orange County Community College | New York, NY** – Political Science