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SKILLS

Languages: Python, Javascript, HTML, CSS, Typescript

Frameworks & Libraries: React, Django, Flask, Node.js, GraphQL

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

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

APIs & Integration: AWS Cloud - API Gateway, CloudWatch, Lambda's, ECR, S3, RESTful APIs, OAuth, OpenID Connect, HL7 FHIR, Smart on FHIR

Methodologies: Test-Driven Development (TDD), Unit-Testing, Regression, Performance, and System Integration Testing, Continuous Integration/Continuous Deployment (CI/CD), Object-Oriented Programming, Data Structures, Microservices

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

- Developed a React application for scanning and rendering individual health data, utilizing React and TypeScript for the frontend. Implemented a scalable backend with AWS Lambda functions using Docker containers and ECR for image updates, AWS S3 for object storage and fetching, and API Gateway for authentication and authorization, ensuring efficient data processing.
- Developed and integrated RESTful APIs for health data processing, ensuring compliance with HL7 FHIR standards. This integration allowed seamless and secure data exchange between the personal health record application and various EHR systems. Utilized OAuth for secure authentication and authorization within a personal health record application, enabling users to securely connect with EHR APIs and access their health data across multiple platforms.
- Designed and implemented a production-level CI/CD pipeline for a serverless backend application using GitHub Actions, incorporating AWS OIDC for secure cloud operations. Optimized AWS Lambda deployments with Docker container image updates, resulting in 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 1000 sources in under 2 minutes, achieving a 99% reduction. Utilized Python, Django ORM, Redis and Celery for bulk data insertions and real-time error tracking, resulting in an 800% increase in available data endpoints for users.
- Maintained highly available and scalable backend systems, ensuring 99.9% uptime and seamless user experiences. Implemented redundancy and failover strategies using AWS services to achieve high availability.

- Managed backend system deployments to production, consistently meeting or surpassing SLAs for seamless, on-schedule releases. Diligently maintained and refined software libraries to enhance performance and minimize security vulnerabilities.

The Commons Project, New York, NY — JR Software Engineer

July 2021 - March 2022

- Developed a user onboarding carousel in React using TypeScript/JavaScript, significantly enhancing the onboarding process by improving navigation and usability, resulting in a 20% increase in user engagement metrics such as retention and completion rates.
- Gathered and analyzed technical requirements from international and U.S. government entities for a critical application supporting 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.
- Directed data source testing and validation in compliance with HL7 FHIR / Smart on FHIR standards. Provided expert consultation to organizational partners, assisting them in implementing Smart Health Card builds and ensuring seamless integration.
- Demonstrated SQL expertise by executing complex queries and designing 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

- Improved application performance and reduced incident response time by implementing proactive monitoring solutions and detailed analytics reports. Developed comprehensive monitoring and visualization dashboards in New Relic for AWS-hosted applications. Leveraged 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 enhancing 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. Created comprehensive documentation to assist the customer support team in troubleshooting and resolving issues efficiently.
- 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

Smart Health Card 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

Orange County Community College | New York, NY — Associate Degree