

# NIKHIL KRISHNA

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## SUMMARY

Full Stack Developer with 6+ years of experience delivering scalable, high-performance applications and APIs. Strong in back-end development using Python, Flask, and SQL, with additional experience in front-end technologies such as HTML, CSS, and Angular. Skilled in building ETL pipelines, designing RESTful APIs, implementing schema design, and performing data validation. Experienced in healthcare data standards including FHIR, X12, and HL7, ensuring secure and compliant integrations across systems. Adept at performance optimization, automation, and debugging, with a proven track record of supporting mission-critical systems.

## ACCOMPLISHMENTS

- Designed and implemented scalable ETL pipelines to convert flat-file data (CSV, fixed-width) into structured JSON and XML formats, integrating XSD and JSON Schema validation to ensure high data integrity and regulatory compliance.
- Developed a dynamic SQL query generation framework by parsing XML input and applying configurable business logic, significantly enhancing processing speed, flexibility, and modular reuse across system components.
- Engineered interoperability solutions by transforming healthcare data between X12-278 EDI transactions and FHIR resources, facilitating seamless data exchange between legacy infrastructure and modern API-based platforms.
- Led end-to-end client upgrade initiatives, including solution design, customization, and team mentoring, ensuring successful adoption of new product versions with minimal production issues during critical release cycles.
- Promoted best practices in clean code, automation, and proactive debugging, reducing post-deployment defects and streamlining developer onboarding.

## TECHNICAL SKILLS

- Python - Flask
- Message Broker - RabbitMQ
- API Gateway & Integration
- Databases – MSSQL
- Version control systems - GIT
- Containerization - Docker
- OOP methodologies
- RESTful web services
- Frontend - Angular
- Data Interchange Formats - JSON, XML, HL7, X12
- CI/CD Tools - Jenkins
- ORM - SQLAlchemy

## WORK HISTORY

**Lead Software Developer**, 09/2019 - Current

**Zeomega Infotech** – Bengaluru, Karnataka, India

**Population Health Management Solution - JIVA (Interface):**

- Designed, developed, and maintained scalable ETL pipelines and real-time data interfaces to support population health workflows in the JIVA platform.
- Engineered modular, reusable components for dynamic SQL query generation, enhancing adaptability and system-wide integration.
- Collaborated with cross-functional teams to align data flows with healthcare interoperability standards such as EDI X12 and HL7 improving data accuracy and compliance.
- Identified and optimized ETL bottlenecks through performance tuning and resource profiling, achieving a 30% reduction in data processing time.

**SmartAuth Gateway - HealthUnity:**

- Developed secure, high-performance RESTful APIs for the e-Prior Authorization (ePA) SMART on FHIR application, enabling seamless connectivity between payer and provider systems.
- Built microservices with Python (Flask) for patient authorization workflows and complemented them with Angular-based front-end modules, enabling seamless integration and an improved user experience.
- Integrated OAuth2.0 authorization to ensure HIPAA-compliant data access and secure identity flows.
- Tuned API endpoints and background tasks to reduce latency and accelerate authorization processing by up to 40%.

## EDUCATION

**Bachelor of Engineering:** EEE, 05/2019

**DSCE** - Bengaluru, India

## LANGUAGES

Kannada

English

Hindi