

## Sheena Thomas

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### Professional Summary

Full-Stack Engineer with 3.7 years of experience in designing, developing, and deploying **scalable web applications** using **React.js, Python, Node.js, Flask, and Laravel**. Proficient in **RESTful API development, cloud deployment (AWS), database management (MySQL, PostgreSQL, MongoDB), and real-time applications**. Skilled in analytical thinking, troubleshooting, and collaboration, with a proven ability to deliver secure, high-performance, and user-focused solutions. Experienced in integrating **MLOps tools (MLflow, Kubeflow, Seldon Core)** and implementing end-to-end software workflows.

### Skills

<b>Languages:</b>	Python, JavaScript, TypeScript, SQL, PHP
<b>Frontend:</b>	React.js, TypeScript, MUI, HTML, CSS, Bootstrap
<b>Backend:</b>	Node.js, Express.js, Flask, Laravel
<b>Databases:</b>	MongoDB, PostgreSQL, MySQL
<b>Cloud &amp; DevOps:</b>	AWS (Lambda, EC2, S3, API Gateway, Cognito, QuickSight), Docker, Kubernetes
<b>MLOps Frameworks:</b>	MLflow, Kubeflow, Seldon Core
<b>Authentication:</b>	JWT, AWS Cognito
<b>Tools &amp; Others:</b>	Git, WebSocket, ElectronJS, SVN
<b>Soft Skills:</b>	Proficient in analytical problem-solving, quick to learn new technologies, Communication, Leadership

### Work History

#### Software Engineer

Quest Global | Trivandrum

June 2022 – May 2025

- **Medical Equipment Monitoring System** | *Python, AWS Lambda, Cognito, API Gateway, S3, QuickSight, React.js, TypeScript*
  - Engineered a **cloud-based web application** for real-time monitoring of medical devices and generating performance reports from modality machine data.
  - Enabled multi-tenant architecture with role-based access control for multiple hospitals (hospital admin, device admin, operator) using **AWS Cognito**.
  - Orchestrated **AWS services (Lambda, API Gateway, S3, QuickSight)** for serverless data processing, secure authentication, file storage, and interactive reporting dashboards.
  - Delivered a **responsive front-end in React.js + TypeScript**, for hospital and device management.
- **AI Model Management & Training Platform** | *React.js, Flask (Python), MongoDB, REST APIs*
  - Designed a **React.js web interface** for uploading, managing, and visualizing training datasets for AI models.

- Developed **RESTful APIs with Flask** to support dataset ingestion, model training execution, and training progress tracking.
- Structured **MongoDB database design** for handling efficient data storage and retrieval and streamlined API communication with JSON schemas.
- Enhanced workflow by automating dataset management and training orchestration.
- **MLOps Pipeline Implementation & Feasibility Study** | *MLflow, Seldon Core, Kubeflow, Docker, Kubernetes, Prometheus, Grafana*
  - Built an **end-to-end MLOps pipeline** using **MLflow** for experiment tracking, model versioning, and lifecycle management.
  - Deployed machine learning models to production with **Seldon Core**, enabling scalable and monitored model serving on Kubernetes.
  - Researched and evaluated **Kubeflow Pipelines** for workflow orchestration, CI/CD integration, and large-scale training automation.
  - Integrated **monitoring and alerting** using **Prometheus and Grafana**, ensuring real-time model performance insights.
- **FHIR Subscriber Web Application** | *JavaScript, WebSocket, HL7 FHIR (R4 & R5), Node.js*
  - Built a **subscriber-based web application** in JavaScript to consume and process real-time data from an **HL7 FHIR server**.
  - Added compatibility for **both R4 and R5 FHIR standards** to ensure interoperability.
  - Configured **WebSocket-based subscription modules** to receive event-driven updates from the FHIR server.
  - Implemented logic to calculate and analyze time delays between event generation and subscriber reception, improving system performance monitoring.
  - Strengthened healthcare interoperability through real-time synchronization and event tracking.

### Software Developer

Flotilla Technologies | Ernakulam

June 2021 – February 2022

- **Learning Management Web Application** | *PHP (Laravel), PostgreSQL, REST APIs, JavaScript*
  - Created a **web application for training management** where students can register for courses and access training resources.
  - Delivered **RESTful APIs in Laravel** to manage course enrollment, user authentication, training and content delivery.
  - Designed **PostgreSQL schema** for student data and training records, with admin features for resource management.

### Education

B.Tech (Computer science & Engineering)

August 2016 – May 2020

St. Thomas College of Engineering & Technology, Chengannur, Kerala.

### Language

English: Intermediate, Hindi: Basic, Malayalam: Fluent & Native, Tamil: Basic

### Personal Information

Visa Status: Residence Visa

Nationality: Indian