




# SAMARTH MANGUKIA

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 [github.com/smangukia](https://github.com/smangukia)

## Technical Skills

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**Languages:** Python, JavaScript, C++, PowerShell, HTML5, SQL, PHP, TypeScript, Java, C#, CSS3

**Frameworks and Libraries:** ExpressJS, Redux, ReactJS, Springboot, NodeJS, NextJS, Angular

**Databases:** Redis, Firebase, PostgreSQL, DynamoDB, MongoDB, MySQL

**APIs and Integrations:** Apache Kafka, Github OAuth, RESTful APIs, GraphQL

**Cloud and DevOps:** Terraform, Kubernetes, AWS, GCP, Docker, CI/CD, Github Actions, Azure

**Development Tools:** Lucidchart, Postman, Figma, Git, Jira, Slack, Confluence

**Software Concepts:** Object-Oriented and Functional Programming, Event-Driven Design, Infrastructure as Code (IaC), UML, Microservices Architecture, SOLID principles, Scalability, Optimization

## Experience

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### Invental Pvt Ltd

Feb 2023 – Jul 2023

#### Full-Stack Developer Intern

Ahmedabad, Gujarat

- Architected and developed a comprehensive full-stack learning platform using Next.js, React.js, Node.js, and MongoDB, implementing all phases of the software development lifecycle.
- Engineered an interactive dashboard displaying task progress metrics and created a dynamic timeline feature to enhance user engagement and learning experience.
- Implemented GitHub OAuth authentication and robust security protocols, working closely with a small, agile team to reduce sign-up friction by approximately 20% and enforce best practices.
- Developed a real-time task evaluation system for mentors with performance tracking capabilities, streamlining feedback processes and improving assessment efficiency.
- Optimized backend API performance through efficient MongoDB query restructuring, reducing data retrieval latency by approximately 35%.

## Projects

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### CommuneDrop – Cloud-Native Delivery Platform

React.js | .NET | Node.js | Kafka | Redis | AWS | Kubernetes

- Built a real-time location tracking system using Node.js, Socket.IO, and **Kafka**, enabling smooth communication between drivers and customers through an event-driven architecture.
- Improved responsiveness of driver discovery with optimized MongoDB geospatial queries and implemented bandwidth-efficient WebSocket strategies.
- Containerized services using Docker and managed cloud deployments on AWS with **Kubernetes**, incorporating auto-scaling to handle varying traffic loads.
- Collaborated with a small development team to integrate core microservices (OrderService, PaymentService, AuthService) and contributed to React-based frontend features like live location tracking on Google Maps.

### HandyShare – Peer-to-Peer Lending Platform

Spring Boot | React.js | Ant Design | JWT | Stripe | CI/CD | Designite

- Implemented secure user authentication using **JWT**, including sign-up, email verification, and login, while addressing token conflict issues for a smoother user experience.
- Integrated Stripe for rent payments, coordinating backend and frontend logic for reliable, user-friendly flows.
- Built a **CI/CD** pipeline to automate builds, tests, and deployments, and incorporated Designite to support maintainable, high-quality code.
- Refactored frontend pages and backend services to improve responsiveness, simplify structure, and enhance long-term maintainability.

### Document Converter – Scalable Document Transformation Platform

React.js | Node.js | AWS (Lambda, EC2, S3, API Gateway, DynamoDB, SQS) | Terraform

- Developed a full-stack, microservices-based application for converting documents between formats like Markdown, HTML, PDF, DOCX, and TXT, with both web and API interfaces.
- Designed and deployed a scalable cloud infrastructure using **Terraform** (IaC) on AWS, and incorporated automation workflows aligned with DevOps best practices.
- Built a conversion pipeline with format detection, validation, and routing, enabling seamless uploads, downloads, and history tracking through a React frontend and RESTful APIs.
- Integrated SQS for queue-based task processing and implemented monitoring and analytics for tracking usage and conversion metrics across the platform.

## Education

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### DALHOUSIE UNIVERSITY

Master of Applied Computer Science

Sept 2024 – Present

Halifax, NS