

Chinmay Lokare

chinmaylokare9@gmail.com | +1 5854789120 | www.linkedin.com/in/chinmaylokare/ | Rochester, New York – 14623

EDUCATION

Rochester Institute of Technology	Aug 2024 – May 2027
Master of Science in Computer Science	
Ramrao Adik Institute of Technology, Navi Mumbai	Aug 2017 – Jun 2021
Bachelor of Engineering in Electronics Engineering	

EXPERIENCE

Research Assistant, Federated Learning Platform Rochester Institute of Technology	Apr 2025 – Present
<ul style="list-style-type: none">Architected and deployed a full-stack, distributed federated learning platform, enabling a 100% privacy-preserving training workflow across 10+ simulated distributed clients.Engineered a scalable Java/Spring Boot backend to manage the complete project lifecycle via a secure REST API, designed to handle over 100 concurrent training sessions.Automated the entire server-side deployment and orchestration on AWS EC2, reducing the setup time for new, container-less FL training environments from hours to under 2 minutes.Implemented a stateless, JWT-based authentication system, securing all API endpoints and reducing initial server response times for authenticated requests by 40%.Applied industry-standard resiliency and security practices to ensure high availability and protection of data during training.	
Software Development Engineer TATA Consultancy Services	Jul 2021 – Jun 2024
<ul style="list-style-type: none">Led a team of 4 developers and spearheaded the migration of a legacy CRM frontend from jQuery to ReactJS, boosting application performance by 150% and reducing launch times.Engineered 5+ enterprise dashboards for a major telecom client, improving order tracking efficiency by 30% and addressing over 50 UI/UX defects to enhance user experience.Managed and optimized SQL-based data pipelines for a customer relationship management system, handling over 1,000 daily interactions and increasing data accuracy.Reduced overall project development time by 35% by applying expertise across the full stack (React, Node.js, Java) and implementing Agile methodologies.Collaborated across cross-functional teams, applying secure coding practices and cloud-based application deployment.	

SKILLS

Languages:	Java, Python, JavaScript, TypeScript, SQL, C++
Web:	ReactJS, Angular, HTML5, CSS3, Material-UI, Netlify, Vercel
Backend:	AWS Lambda, Spring Boot, Node.js, Express, REST, gRPC
Databases:	PostgreSQL, MongoDB, Firebase, DynamoDB, Pinecone (Vector DB)
Cloud & DevOps:	AWS (API Gateway, SQS, EC2), Docker, Git, GitHub Actions, Terraform
AI/ML:	TensorFlow, PyTorch, Hugging Face, RAG, Semantic Search, Keras, Flower
Currently Exploring:	GraphQL, Airflow

PROJECTS

Federated Learning Platform	Apr 2025 - Present
<ul style="list-style-type: none">Developed a platform to orchestrate federated model training across distributed clients, reducing the need for centralized data collection by 100% while maintaining model performance.System dynamically launches gRPC-based Flower servers on demand, supporting multiple concurrent projects and scaling to accommodate new clients seamlessly.Tech Stack: AWS EC2, Java, Spring Boot, Python, Flower, PostgreSQL, Docker	
DevDocBot – AI Powered Semantic Search Engine	Jan 2026
<ul style="list-style-type: none">Engineered a serverless RAG search system on AWS using Pinecone and Hugging Face, enabling natural language querying of documentation with <100ms latency.Architected an event-driven ingestion pipeline via GitHub Webhooks and SQS for real-time indexing, optimizing performance with a DynamoDB read-through cache (60% hit rate).Tech Stack: AWS (Lambda, API Gateway, SQS, DynamoDB), Python, React, Pinecone, Hugging Face, Terraform	