# SANCHAY NARENDRA GAWANDE

sanchay@jobemail.net | +1(857)-395-5752 | Massachusetts, USA | LinkedIn | Github | sanchaygawande.com

## SUMMARY

Full Stack Engineer with **3+ years** of experience building **cloud-native** and **AI-integrated** platforms using **React, Node.js, Flask, FastAPI**, and **AWS**. Proven success in delivering scalable systems, optimizing microservices, and deploying ML-powered features like GPT-based semantic search.

## SKILLS

- **Languages:** Python · Java · JavaScript (ES6+) · TypeScript · SQL · NoSQL
- **Frontend:** React.js · Next.js · Angular · Redux · HTML5 · CSS3 · Tailwind CSS · Bootstrap · Material UI · WebSockets
- **Backend:** Node.js (Express.js, Nest.js) · Flask · FastAPI · Spring Boot · GraphQL · REST APIs · gRPC · OAuth 2.0 · JWT
- **Database:** PostgreSQL · MongoDB · Redis · Firebase · MySQL · Cassandra
- **Cloud & DevOps:** AWS (Lambda, EC2, S3, RDS, CloudWatch) · GCP · Azure · Docker · Kubernetes · Terraform · GitHub Actions · Jenkins · CI/CD Pipelines
- **Testing & Security:** PyTest · JUnit · Cypress · Jest · Selenium · Postman · TDD · Prometheus · Datadog · Sentry · Auth0

## PROFESSIONAL EXPERIENCE

**Software Engineer**, Anthem                                            *10/2023 – Present | Remote, USA*
- Re-architected the monolithic **Flask** backend into modular **Node.js** microservices with **GraphQL**, improving API consistency and reducing latency by **30%** under concurrent usage.
- Designed and deployed a **serverless infrastructure on AWS** (**Lambda**, **API Gateway**, **S3**), scaling effortlessly to handle spikes in usage and cutting infrastructure costs by **25%**.
- Integrated Firebase Authentication and **JWT-based** session handling, enabling secure access control across three user roles and reducing unauthorized access attempts by **60%**.
- Automated the **CI/CD** pipeline using **Docker** and **GitHub Actions**, enabling pull-request-triggered deployments and reducing manual release overhead by **40%**.
- Conducted a complete accessibility compliance audit **(WCAG 2.1)** and led frontend refactoring in **React/Next.js**, increasing **Lighthouse** scores from 70 to 98 and improving usability for assistive tech users.
- Developed a **semantic** search engine using **OpenAI embeddings** and **vector matching**, enabling clinicians to retrieve relevant case records with **95%+** accuracy and reducing lookup time by **50%**.
- Created **FastAPI-based services** for patient feedback processing, optimizing **p95** latency and ensuring near-instant UX during live interactions.
- Collaborated with legal engineers to design an AI-powered document parser (**OpenAI + Python**), reducing triage processing time by **70%** and increasing provider trust.

**Software Engineer,** Infosys                                            *06/2021 – 08/2022 | Bengaluru, India*
- Led full-stack development of a customer churn prediction platform using **Flask**, **React**, and **PostgreSQL**, designing relational schemas and stored procedures to support analytical churn queries.
- Built and optimized a **GraphQL API** layer and implemented **Redis caching**, reducing backend resolver load by **65%**.
- Developed real-time dashboards with **React** and **D3.js** to visualize churn metrics and trends, providing business stakeholders with dynamic insights that improved campaign timing.
- Migrated backend infrastructure to **AWS EC2**, **S3**, **CloudFront**, improving reliability and achieving **99.9% uptime** across **100K+** concurrent users.
- Rolled out an internal design system of reusable UI components, reducing front-end development time for new features by **30%** and improving consistency.
- Managed schema versioning and safe DB migrations using Alembic, enabling weekly rollouts with zero downtime.
- Built a **Terraform-based** CI/CD pipeline, supporting multi-region deployment and rollback with GitHub Actions.

## PROJECTS

PeerGenius - AI-powered student collaboration platform
- AI-powered student collaboration platform with **real-time chat**, **threading**, **summarization**, and **secure auth** using **React**, **Node.js**, **MongoDB**, **Firebase**, and **OpenAI API**.

LifeLens - Microservices-based AI daily decision engine
- Context-aware AI decision engine built with **FastAPI**, **Supabase**, **React Native**, and DistilBERT, offering **real-time recommendations** via **microservices architecture**.

## EDUCATION

**Master of Science - *Computer Science***                                            *Boston, USA*
University of Massachusetts, Boston
**Coursework:** Data Structures & Algorithms · Distributed Systems · Full Stack Web Development · Cloud Computing · Database Systems · Software Engineering · Operating Systems · DevOps & CI/CD · API Design · Computer Networks

**Bachelor of Engineering - *Computer Science and Engineering***                                            *Maharashtra, India*
Sant Gadgebaba Amravati University
**Coursework:** Web Technologies · Object-Oriented Programming (Java) · Database Management Systems · Operating Systems · Software Engineering · Compiler Design · Computer Networks · Artificial Intelligence · System Design