

# ANURAG SACHAN

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## ABOUT ME

I like to build scalable architecture on the cloud. I have hands-on experience in Backend Engineering and Cloud-Native technologies, with a keen interest in Microservices, API Gateways, and High-Performance Low-Latency Trading Systems.

## EDUCATION

### Indian Institute of Technology, Madras

Bachelor's in Computer Science (2021 – 2025)

## PROJECTS

### Iceberg Forex Trading System — Java, MatchTrader, TradingView, Prop Funded Accounts

- Forward-testing Automated CCI strategy with discrete Volume Profile, Cumulative Volume Delta Bias
- Managed multiple Prop Firm Funded Accounts
- Integrated with Match Trader APIs for Order Placement and Risk Management
- Worked with TradingView for charting and indicator data

### Java Algo Options Trading System — Java, Zerodha Kite, Groww, Kotak Neo, TradingView

- Core Java with multithreading, authentication, APIs
- Implemented backtesting, strategy creation, order placement, performance tuning
- Integrated broker APIs, charting services, indicators, market data

### Deployed Containerized App on AWS — AWS, Docker, Jenkins, Kubernetes, Prometheus

- Implemented Jenkins CI/CD on AWS EC2
- Managed Docker images on Docker Hub
- Deployed on Minikube and AWS EKS
- Automated GitHub source changes
- Handled multiple Kubernetes deployments/services
- Used Terraform, Ansible, Prometheus, Grafana, Helm
- Applied security groups, networking best practices

### Fullstack Java Application: Spring Boot & React.js — Java SpringBoot 3, Security 6, JWT, OAuth, Hibernate, Payment Gateway, MySQL, RestAPI, React, Axios

- Developed MVC architecture (Controller, Service, Repository, Config, DTO, MySQL)
- Implemented real-time validator, RBAC, JWT security, password encryption, token generation
- Tested via Postman
- AWS EC2, S3, Lambda, RDS, IAM, VPC, Load Balancer, Firewall

### Ecommerce Website: Flask & Vue.js — Flask, Vue, SQL, Redis, Celery, JWT, Axios

- Implemented state management, security, caching, RBAC
- Configured Redis broker and Celery workers
- Developed API endpoints, routing, SMTP integration

## TECHNICAL SKILLS

**Programming & Frameworks:** Java 11+, Spring Boot, MVC, Maven, Hibernate JPA, Spring Security 6/OAuth2, TypeScript, React/recoil, Rust, Python (Pandas), Node.js, Kafka, Redis, GraphQL, Docker, Kubernetes, PostgreSQL, MySQL, MongoDB, Apache Spark

**Development & Architecture:** Event-Driven Design, Object Oriented Programming (OOP), TDD (JUnit), Microservices, API, REST, gRPC, Caching, Linux, Core Java, WebSockets, JWT, Jira (Agile/Scrum), Zsh, Bash, JSON, YAML, protobuf

**Cloud & DevOps:** AWS, EKS, Azure, GCP, Jenkins, Prometheus, Grafana, Ansible, Istio Service Mesh, Helm, TCP/IP Routing, Multicast

**Trading & Low-Latency:** High-Performance Java, Low Latency Development, Multithreading & Concurrency, Lock-free Design, GC Optimization, OMS/EMS Order Flow, Risk Management, Post-Trade Operations, FIX Protocol, Kbd+/q Strategy Development & Backtesting, Real-time Market Data Processing

## CERTIFICATES

- WorldQuant Brain: Gold Alpha — Sep 2023
- Microsoft AZ-900 Certified: DevOps — Jun 2023
- Microsoft DP-900 Certified: Data — Jun 2023