

# Anupam Raj

B.Tech. | M.S. | Backend Developer & Cloud Engineer

## Summary

- Accomplished Backend Developer & Cloud Engineer with over 4 years of experience.
- Have expertise in designing and building scalable, secure, and reliable cloud-native solutions.
- Adept at working in fast-paced environments and delivering complex software projects that meet high standards of code quality and reliability.

## Employment

**Nest Wealth Solutions Inc. (a SaaS-based multi tenant B2B app)** Toronto  
Software Engineer (Full Stack) Nov. 2021 to Dec. 2023

- Developed and deployed cloud native event based microservices with Kafka, RabbitMQ, NodeJs, TypeScript, Python, Go, MySQL, Mongo, Redis, and AWS cloud services
- Implemented cost optimization for AWS infrastructure components
- Led client facing API's authentication mechanism upgrade
- Led and implemented a critical migration project for a client by developing a dedicated custodian submission strategy
- Improved deployment pipeline in Jenkins to facilitate rapid deployments for different tenants which resulted in 20% faster shipping times

**YourMD.ca (a startup in healthcare sector)** Toronto  
Software Engineer (Full Stack) Oct. 2019 to Oct. 2021

- Developed and implemented:
  - the end-to-end system / api design of the healthcare app from inception
  - data modelling to satisfy business logic and application needs
  - the landing zone for the application in AWS (account structure & billing, networking, security, monitoring and data protection features)
  - the back end and database layer of the application with NodeJs / Express / TypeScript, GraphQL API, MongoDB and PostgreSQL
  - the front end using react and redux
  - real time notification system using websocket connections
  - dual authorization based on user role (doctor / staff / patient) to protect API endpoints as well as DB collections where each collection had a different set of permissions to control CRUD interaction

**Atelier Ten** San Francisco  
Energy Analyst June 2017 to Aug. 2019

- Whole building thermal energy modelling and performance analysis based on various code / client requirement
- Used python to develop scripting tools to assist the team with the daily workflow

## Certifications

AWS Certified Developer - Associate  
AWS Certified Solutions Architect - Associate  
HashiCorp Certified: Terraform Associate

## Contact

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## Skills

**ARCHITECTURE:** MicroService,  
Event Driven, Serverless, Monolithic  
**LANGUAGES:** TypeScript, NodeJS,  
Python, Java, Go  
**FRAMEWORKS:** Express, NestJS, NextJS,  
React / Redux, Django, Gin, Socket.io  
**DATABASES:** MongoDB, PostgreSQL,  
MySQL, Redis, DynamoDB, RDS, Aurora,  
DocumentDB  
**AWS CLOUD:** IaC (Terraform), Lambda,  
API Gateway, S3, SQS, SNS,  
EventBridge, IAM, EC2, CloudWatch,  
Cognito, ECS, EKS  
**MESSAGE BROKERS:** RabbitMQ, Kafka,  
NATS  
**CONTAINERIZATION AND ORCHESTRATION:**  
Docker, Kubernetes, Skaffold, Helm  
**API:** REST, GraphQL, SOAP, WebSockets,  
Webhooks, gRPC  
**CI/CD PIPELINE:** Github Actions, Jenkins,  
Travis  
**OBSERVABILITY & MONITORING:**  
AppDynamics, Grafana, Dynatrace,  
Datadog, Prometheus, Graylog  
**TESTING:** API Testing (Supertest),  
Automation Testing (Puppeteer),  
Contract Testing (Pact / Pactflow), Jest,  
Performance Testing (Apache JMeter /  
Locust / BlazeMeter)  
**OTHER TOOLS:** Swagger, Apache Avro,  
Protocol Buffers (Protobuf)

## Education

Arizona State University, Tempe, USA  
M.S. in Built Environment 2017  
  
Malaviya National Institute of Technology,  
Jaipur, India  
B.Tech. in Mechanical Engineering 2010