

# MANISH CHHETRI

ENGINEER · FULL STACK DEVELOPER

Kathmandu 29, Anamnagar, Bagmati

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“Be the change that you want to see in the world.”

## Profile

Results-driven professional with extensive experience in full-stack development, cloud services, and mentoring. Demonstrated expertise in creating high-quality, secure solutions using ReactJS, NestJS, Docker, Kubernetes, and microservices architecture. Proven success in guiding junior developers, optimizing performance, and ensuring robust security. Passionate about delivering comprehensive solutions and driving impactful projects while continuously seeking opportunities for growth

## Technical Skill

**Back-end** :- Node, Typescript, Express, NestJS, Redis, Sockets

**Front-end** :- CSS, ReactJS, Redux, NextJS, Tailwindcss

**Database** :- NoSQL: MongoDB, SQL: Postgres, MySQL

**DevOps** :- Docker, Kubernetes, CI/CD pipelines (Github Actions), Ansible, Kafka

**Cloud Services** :- AWS: EC2, ECS, S3, Serverless Lambda, VPC

## Experiences

### Swivt Education

Lalitpur, Kathmandu Nepal

#### FULL STACK DEVELOPER (MENTOR)

Jun. 2024 - Present

- Provide guidance and mentorship to junior developers, helping them enhance their technical skills and grow as full-stack engineers.
- Assist mentees in building real-world applications, focusing on both frontend and backend development using modern technologies (e.g., React, Node.js, MongoDB)
- Review code, provide constructive feedback, and introduce best practices in software development. - Teach concepts like version control, API development, responsive design, and database management

### EnterLeaf

Kuleshwor, Kathmandu Nepal

#### MICROSERVICE BACKEND DEVELOPER

Jan. 2024 - May. 2024

- Designed and developed different services using NestJS, leveraging NATS for message brokering, enabling a robust event-driven architecture.
- Integrated an API Gateway to handle and route requests efficiently from both mobile and web browser clients, ensuring seamless communication across services.
- Implemented a CI/CD pipeline using GitHub Actions, streamlining the deployment process and ensuring continuous integration and delivery for rapid and reliable updates.

### UpStartPrep

Knoxville, Tennessee, United States

#### BACKEND DEVELOPER

Dec. 2022 - JUN. 2023

- Creating and improving application programming interfaces (APIs), architecture, and servers, and databases (SQL) for E-Learning Platforms.
- Implementation of Payment System ( Stripe ) and Used Cloud Services like AWS
- Implementation of microservices-based architecture, incorporating containerization and CI/CD pipeline for efficient development.

## Projects

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### Real Time Vote Ranking

#### CODE

- Implemented a Real-Time Vote Ranking system using Nest.js Web Socket Gateway for secure communication and JWT tokens for user authentication
- Utilized Redis micro-services for efficient data handling, and Docker for containerization. The front-end was built with React and integrated with Socket.io for real-time updates.

### OAuth Template and RBAC Authorization Template

#### OAUTH CODE RBAC CODE

- A versatile template-based OAuth in nodeJs and Authorization module using NestJS, allowing developers to easily integrate various OAuth providers (e.g., Google, Facebook, Twitter) into their applications.
- Implemented granular user permissions through custom decorators and guards, ensuring fine-grained control over user actions.

### Best Tour Destination Search

#### CODE

- Developed a Tour Search App with Node.js and MongoDB, featuring user authentication with JWT for login, signup, and password reset functionalities.
- The front-end is powered by Pug templates and CSS, while Mapbox is integrated for interactive map services.
- The app provides access to a range of tour-related endpoints, allowing users to discover nearby attractions, access tour listings, create new tours, and manage existing tours effortlessly

### Image Caption Generation in Nepali Language

#### CODE

- Conducted Image Caption generation using the transformer architecture model on a cultural heritage dataset with 2.5k images of 6 heritage sites in Nepal.
- Explored dataset properties, prepared datasets and data loaders, and applied data preprocessing techniques, including data augmentation.
- Implemented interactive UI using reactJS and bookend server to communicate with model using flask.

## Reference By

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### Shisir Paudel

*Research Assistant at Active Learning Lab*

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