

RISHIKESH GHARAT

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EDUCATION

Master of Computer Science – New York University (CGPA: 3.8/4)

Sept 2024 - May 2026

Coursework: Network Security and Privacy, Analysis of Algorithm, Big Data Analytics, Machine Learning, Database Systems, OS

Bachelor of Computer Engineering - University of Mumbai

WORK EXPERIENCE

Software Engineer | CampusNest

Sept 2025 - Dec 2025

- Developed a Django-based housing platform serving **500+** verified students with .edu email validation, deployed on AWS Elastic Beanstalk with **92%** test coverage and an automated CI/CD pipeline
- Built a real-time messaging system processing **1000+** daily messages with sub-**200ms** response times, supporting conversations for both housing listings and marketplace transactions
- Integrated AWS S3 for media storage and Mapbox API for interactive listing maps with geocoding, custom markers, and location-based search capabilities
- Established a comprehensive testing framework with **300+** automated unit tests covering authentication, messaging, and search workflows using Django TestCase

Software Engineering Intern | National Informatics Centre

April 2022 - Sept 2023

- Designed and deployed a modular RBAC system (React + PHP + PostgreSQL) for **7** government departments, enabling granular role-based access, dynamic permissions, and comprehensive audit trails
- Built a CSV ingestion and validation pipeline to automate proforma budget adjustments for **5** district finance offices, eliminating **70%** of manual reconciliation work
- Optimized database performance by refactoring **50+** SQL queries and implementing Redis caching, reducing report generation time from **6+** minutes to under **1 minute**
- Implemented OWASP-aligned security controls, including JWT authentication, encrypted password storage, session management, and audit logging for critical user actions

PROJECTS

[Chirpy \(Go Web Server\)](#) | Go · PostgreSQL · SQLC · REST API

- Built HTTP client from scratch in Go with custom URL parsers, DNS handlers, and connection managers
- Developed examples for HTTP methods, JSON marshaling, and error handling using Go's net/http package
- Implemented RESTful APIs with API-key protected webhooks, supporting decoupled client-side consumption

Tubely | Go · SQLite · AWS S3 · CloudFront · Docker

- Built a decoupled HTTP server in Go with secure auth, role-based access control, and protected routes
- Used SQLC to generate type-safe Postgres queries and prevent injection vulnerabilities
- Enforced encryption-in-transit and fine-grained permissions to meet enterprise security standards

SKILLS:

Programming & Scripting: Python, Java, Go, JavaScript, TypeScript, C, C++, CUDA, SQL, React.js, Next.js

Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD, Git

Data & AI/ML: PostgreSQL, Tableau, MongoDB, Pandas, NumPy, TensorFlow, Hugging Face, Spark, Dask, NLP

Web & Backend: REST APIs, GraphQL, Flask, Django, Node.js, Express.js, Spring Boot, Microservices

Systems & OS: Linux (Arch, Ubuntu), Networking, System Design, Distributed Systems, Cybersecurity

ACHIEVEMENTS

- Published **"Personality Prediction for CV Analysis"** in ICRMIR – 2023
- **1st Place** – NYU Leetcode Bootcamp Hackathon (2025)

LEADERSHIP EXPERIENCE

Team Lead - CampusNest Platform

Sept 2025 - Dec 2025

- Led 5-developer team through 12-week Agile project, delivering Django application serving 500+ students
- Established code review, Git, and testing standards ensuring equitable distribution and 92% test coverage
- Improved team velocity 30% through retrospectives identifying blockers and implementing improvements
- Coordinated frontend, backend, and deployment development while managing scope and sprint demos