

# Nikhil Lohar

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## EDUCATION

### Durham College

Cloud Computing Post Graduate

Oshawa, Canada

May 2024 - Jan 2025

### Durham College

Artificial Intelligence Post Graduate

Oshawa, Canada

Sept 2023 - April 2024

### Xavier Institute of Engineering

Bachelors of Engineering in IT

Mumbai, India

Jun 2014 - Mar 2018

## EXPERIENCE

### Software Engineer - Internship

Genie.AI

Mar 2024 - June 2024

Toronto, CA

- Architected and implemented an event-driven API system, achieving a 30% latency improvement in real-time data delivery
- Reduced AWS costs by implementing a caching service and improving user experience
- Collaborated with cross-functional teams to deliver scalable solutions

### Software Engineer - Internship

Knorket.AI

Feb 2024 - April 2024

Toronto, CA

- Designed and implemented distributed data validation system using customizable, framework-agnostic rules, improving data processing reliability and performance for large datasets

### Full Stack Engineer

Research and Ranking

Jan 2023 - August 2023

Mumbai, IN

- Developed serverless APIs on AWS supporting lead funneling, scaling systems to over 5,000 requests/second.
- Built a domain-driven microservices for onboarding, invoice generation, and PDF utilities, reducing manual processes and streamlining operations.

### Software Engineer

Bitkraft Technologies

Sept 2020 - July 2022

Mumbai, IN

- Developed global UI component library with CI/CD pipelines, standardizing design and reducing development time.
- Led design and deployment of an exploratory data analysis (EDA) platform, delivering insights that improved efficiency.

### Junior Frontend Engineer

Indiawyn Gaming

Jan 2019 - July 2020

Mumbai, IN

- Optimized single-page application lifecycle management, reducing load times and improving user experience.
- Developed automated testing infrastructure with Excel reporting, increasing test coverage and defect detection.

## PROJECTS

### FinPlay Cloud Architecture | Java, Spring Boot, Python, Flask, Angular, PostgreSQL, Docker, AWS, Terraform

- Designed scalable, secure AWS architecture using ECS, CI/CD pipelines, and IAM.

### XPay Payment Gateway | Spring Boot, NodeJS, ReactJS, AWS, Microservices, PostgreSQL

- Designed high-throughput payment system processing 1,000+ concurrent requests
- Implemented distributed caching and message queue system for payment status management
- Built secure authentication system using industry-standard encryption protocols

### Music Recommendation | NextJS, Python, Flask, Scikit learn, Pandas

- Built scalable music recommendation platform using Next.js and Flask, implementing KNN-based recommendation engine with Spotify API integration for personalized playlist generation

### Autonomous Litter Detection and Delivery System | Python, Tkinter, OpenCV, YOLOv8

- Developed an autonomous waste management system integrating ROS for robot control, YOLOv8 for real-time litter detection, and Django-based interface for drone monitoring and navigation

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, PostgreSQL

**Frameworks:** React, Angular, Node.js, Flask, Jmeter

**Dev Tools:** AWS, Docker, Kubernetes, Kafka, Git, Redis, Nginx

**Version Control :** Git, Github action