

NISHANT KHADKA

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Education

Deerwalk Institute of Technology

Bachelors of Science in Computer Science and Information Technology (B.Sc. CSIT)

2021 – 2025

Sifal, Kathmandu

Little Angels' College

+2 with Physical Science.

2018 – 2020

Hattiban, Lalitpur

Experience

Software Development Engineer I

Cedar Gate Technologies

Mar 2025 – Present

Sanepa, Lalitpur

- Developed and maintained payment technology applications within the U.S. healthcare domain.
- Built scalable and secure backend services using .NET Core 6 and .NET Core 8.
- Contributed to enterprise-grade healthcare payment systems ensuring reliability, compliance, and performance optimization.
- Developed and maintained Java-based applications using Core Java and the Quarkus framework.
- Participated in system design discussions, debugging, performance tuning, and production support activities.
- Collaborated in agile development environments with cross-functional teams to deliver high-quality features and releases.

Associate Software Developer

Green Tick Nepal

Jul 2024 – Feb 2025

Gyaneshwor, Kathmandu

- Contributed to research and development of a Security Information and Event Management (SIEM) system, optimizing Elasticsearch for efficient log analysis and monitoring.
- Led the development of a DDoS protection system including tool setup, configuration, automation scripting, deployment, and lifecycle management.
- Developed an online portal for SKP Tax Solutions, LLC with chat functionality, secure file sharing, Q&A workflows, RBAC, and contract management.
- Designed and implemented a Ticket Management System featuring advanced ticket workflows, SLA tracking, user management, reporting, and automated notifications.
- Implemented Redis caching to reduce load times and improve overall application performance.
- Set up, configured, and optimized the ELK stack, including data pipeline development and monitoring enhancements.
- Managed server infrastructure, containerization, deployment automation, and environment configuration.
- Conducted cybersecurity research including dark web monitoring and threat mitigation analysis.

DevOps and Networking Intern

Deerwalk Education Group

Dec 2022 – Apr 2024

Sifal, Kathmandu

- Developed and deployed a network monitoring web application with real-time tracking and alert notifications.
- Created a QR code-based inventory management system to enhance asset tracking.
- Managed AWS instances and local server infrastructure for optimal performance and reliability.
- Automated Fortinet firewall tasks to improve operational efficiency.
- Deployed applications on AWS and local servers, establishing CI/CD pipelines and utilizing Docker for containerization.
- Contributed to the migration to fiber optic cabling, enhancing network speed and reliability.
- Provided IT support and managed the overall network infrastructure for seamless operations.

Projects

Book Store | ASP.NET Core 8.0 MVC, Razor Pages, .NET Identity, MS SQL Server 2022, EF Core | Github

Feb 2025

- Developed a full-stack book store application with CRUD operations, image uploads, and role-based authentication using ASP.NET Core Identity.
- Designed and implemented N-Tier Architecture with Repository Pattern, separating admin and customer logic.
- Configured Entity Framework Core with SQL Server 2022 and implemented secure EF Migrations.
- Integrated Toastr notifications and server-side/client-side validation for an enhanced user experience.
- Utilized dependency injection, optimized routing, and incorporated Razor Pages for improved efficiency and maintainability.

- Personalized Healthcare System** | *Django DRF, React JS, PostgreSQL* | GitHub **Oct 2024**
- Data analysis, feature extraction and model training on symptoms and disease datasets.
 - Developed a web app for disease prediction using SVC, token-based authentication, hospital search using live location, blogs, and medicine reminder scheduling with email notifications.
 - Utilized Celery and Redis for message queuing and notification scheduling of medicine reminders.
- Gromi** | *PostgreSQL, Express JS, React JS* | gromi.com.au | GitHub **July 2024**
- Developed an e-commerce platform with payment integration via Stripe.
 - Integrated real-time location filtering to display nearby vendors' products
 - Built responsive UI in React, along with vendor and admin dashboards for managing products, orders, and categories.
- Online Voting System** | *Django, PostgreSQL, Tailwind* | election.nishantkhadka.com.np | GitHub **April 2024**
- Developed a Django web app for online elections with authentication, voting functionality, and admin views for managing elections, candidates, and results.
 - Integrated ChartJS to visualize vote counts and election data, including countdown timers for deadlines.
- Real Estate Marketplace** | *Next JS, PostgreSQL, Fast API, BeautifulSoup* | GitHub **March 2024**
- Scraped real estate data from Nepali marketplace, performed data analysis, data cleaning and trained model for price predictions.
 - Developed a web platform for buying and selling houses, apartments and lands.
 - Implemented chat functionality using Socket.io for real-time communication between buyers and sellers.
 - Created a house price recommendation model using Random Forest, trained on scraped data from Nepali real estate sites.
- Network Monitoring** | *React JS, Express JS, Node JS, MongoDB* | network.deerwalk.edu.np | GitHub **October 2023**
- Developed and deployed network devices monitoring app to monitor network devices with interactive charts.
 - Implemented updates every 5 minutes with email alerts for device status.
 - Implemented cron jobs to remove old database entries weekly.
- Netflix Clone Deployment** | *Docker, SonarQube, Trivy, AWS, Jenkins, Grafana, Kubernetes* | GitHub **July 2023**
- Deployed a Dockerized application on AWS EC2 with automated Jenkins pipeline for building, testing, and deployment.
 - Implemented SonarQube, Trivy for security scanning, and set up Prometheus and Grafana for system performance monitoring.
 - Deployed the application on AWS EKS using Kubernetes, Helm charts, and ArgoCD for continuous deployment.
- Life Organizer** | *Django, PostgreSQL, Celery, RabbitMQ* | life-organizer.nishantkhadka.com.np | GitHub **August 2023**
- Developed a productive web app with Task Management, Goal Tracking, Notes, Google Calendar Sync, and Analytics.
 - Implemented secure authentication using Django and PostgreSQL for user management.
 - Enabled email reminders using Celery and RabbitMQ, and designed an Analytics page with interactive charts.

Technical Skills

Languages: C#, Java, JavaScript, TypeScript, Python, C, C++, SQL, Bash

Frameworks/Libraries: .NET, Quarkus, React JS, Express JS, Node JS, Django, Django DRF, Next JS, Fast API

Technologies: AWS, Docker, Linux, GitHub, RabbitMQ, Redis, Elasticsearch, ELK Stack, SIEM

Achievements / Extracurricular

- Track winner of KU Hack Fest 2024 (AR/VR Track).
- Top 10 Finalist at Spirathon- Public Data Innovation.
- Finalist at Step Into The Future, an International Forum for Scientific Youth in Russia.
- Winner of the Python Coding Challenge from the Software Club at Deerwalk Institute of Technology.
- Winner of the Photo Manipulation Competition from the Media Club at Deerwalk Institute of Technology.
- Past Executive Member of Deerwalk Developers Community.
- Past Executive Member of Deerwalk Music Club.
- Achieved the Data Analyst career track certification from DataCamp.