NISHANT KHADKA

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Education

Deerwalk Institute of Technology	**2021 − Present**
Bachelors of Science in Computer Science and Information Technology (B.Sc. CSIT)	*Sifal, Kathmandu*

Little Angels' College	**2018 − 2020**
+2 with Physical Science passed with 3.65 GPA	*Hattiban, Lalitpur*

Experience

Deerwalk Education Group	**Dec 2022 − Apr 2024**
DevOps and Networking Intern	*Sifal, Kathmandu*

- Developed, Deployed, and Dockerized Network Monitoring app with real-time updates and response time tracking.
- Automated Fortigate firewall user management using Python Selenium and Excel data.
- Implemented daily database and application backups with Python and Bash scripts.
- Hosted and managed applications on AWS and local servers, including Apache, tmux sessions, and cronjobs.
- Configured and optimized server resources for high performance, ensuring seamless application operation.
- Containerized several applications on the server.
- Collaborated with cross-functional teams to provide IT support and manage the overall network infrastructure.
- Created inventory management system using NextJS with Google Sheets API using QR code and scanner.

Projects

Avari | *PostgreSQL, Express JS, React JS, Google Map API*   **July 2024**

- Developed a web platform allowing users to buy listed products with cart functionality.
- Integrated payment system using Stripe and integrated Stripe webhook to store successful payment details on the database.
- Created responsive modern UI using React .
- Created Vendor dashboard to manage products and orders.
- Created Admin dashboard to manage vendors, categories, products and orders.
- Used user's real-time location to filter out products of vendor nearest to the user .

Online Voting System | *Django, PostgreSQL, Tailwind* | election.nishantkhadka.com.np   **April 2024**

- Developed a Django web application for conducting an online voting system for elections.
- Created an admin view that is responsible for adding elections, managing candidates for elections, managing results of the election and managing the users/voters.
- Implemented sign-up feature for users to create an account to be eligible to vote for their candidate for any election.
- Created dashboard showing the top upcoming elections and top candidates for the upcoming elections.
- Integrated ChartJS on multiple pages to visually showcase the votes received by each candidate in an election, the vote count of the past 7 days and a card for end date timer.

Real Estate Marketplace | *Nest JS, Next JS, PostgreSQL, Socket.io, Material UI, Fast API, Sklearn*   **March 2024**

- Developed a web platform facilitating the buying and selling of houses, land, and apartments.
- Created a robust REST API using Nest JS, incorporating authentication for secure transactions.
- Implemented chat functionality with room support using socket.io, enabling communication between buyers and sellers.
- Crafted the frontend using Next JS, ensuring proper authentication mechanisms and utilizing contexts for efficient state management.
- Configured socket.io client to seamlessly integrate with the backend API, facilitating real-time communication.
- Implemented advanced search filters to enhance user experience, enabling users to search for properties based on multiple criteria.
- Implemented recommendation model using machine learning hosted on Fast API for price recommendation of property.
- Scraped the property listing data from Nepali real estate sites for model training using BeautifulSoup.

Network Monitoring | *React, Express JS, Node JS, MongoDB* | network.deerwalk.edu.np   **October 2023**
- Developed and deployed a network monitoring application for Deerwalk Institute of Technology.
- Utilized Express JS to build the backend server, implementing JWT authentication and providing real-time device status updates.
- Automated device status updates every 5 minutes using Cron jobs, with data stored in MongoDB for efficient retrieval and analysis.
- Designed a responsive frontend UI using React and Tailwind CSS, integrating charts created with Chart.js to visualize network data effectively.
- Implemented email notification feature to update about device down status for registered emails.

Netflix Clone Deployment | *Docker, SonarQube, Trivy, AWS, Jenkins, Grafana, Kubernetes*   **July 2023**
- Created an EC2 instance on AWS with Ubuntu 22.04 and deployed the application within a Docker container.
- Implemented security measures by installing SonarQube and Trivy on the EC2 instance to ensure code quality and vulnerability scanning.
- Configured and automated the deployment process using Jenkins pipeline, including building, testing, deploying, and notification setup for the Node application.
- Set up Prometheus and Grafana to collect data and monitor system performance. Integrated Node Exporter for monitoring the Kubernetes cluster health.
- Implemented Kubernetes utilizing AWS Elastic Kubernetes Service (EKS) and Helm charts. Deployed the application on the Kubernetes cluster using ArgoCD for continuous deployment.

Life Organizer | *Django, PostgreSQL, Celery, RabbitMQ, Google API* | life-organizer.nishantkhadka.com.np   **August 2023**
- Developed a comprehensive Django web application featuring Task Management, Goal Tracking, Notes, Calendar Sync, and Analytics functionalities.
- Implemented secure authentication using Django and PostgreSQL, ensuring robust user management and data security.
- Integrated the Google Calendar API to facilitate seamless synchronization of events between the application and users' local calendars.
- Enabled email notifications for reminders using Python Celery and RabbitMQ, enhancing user engagement and task management efficiency.
- Designed an Analytics Page presenting various data insights through interactive charts, providing users with valuable insights into their productivity and progress.

Auto Fortigate User | *Python, Selenium, Pandas*   **Janaury 2023**
- Developed a Python application leveraging Selenium to automate the process of adding users to the Fortigate Firewall.
- Utilized libraries such as Pandas to extract necessary data from an Excel sheet, facilitating the seamless transfer of information to Selenium for the creation of new items in the Firewall.

Technical Skills

Languages: JavaScript, Python, C, C++, Dart, HTML/CSS, SQL, Typescript, C#
Frameworks: React JS, Express JS, Node JS, Django, Flutter, Nest JS, Next JS, .NET, Fast API
Technologies: AWS, Docker, Linux, GitHub, Kubernetes
Graphics: Photoshop, Illustrator

Achievements / Extracurricular

- 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 DWIT 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.