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 − Mar 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.

Projects

Real Estate Marketplace | *Nest JS, Next JS, PostgreSQL, Socket.io, Material UI*   **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.

Network Monitoring | *React, Express JS, Node JS, MongoDB* | link   **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.

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, Tailwind, Celery, RabbitMQ, Google Calendar API*   **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.

Banking App GUI | *Flutter, SQLite*   **April 2023**
- Designed a sample banking application featuring a responsive and modern user interface, integrating Google Navbar for enhanced navigation experience.
- Utilized SQLite database to create user tables and implemented a robust authentication system, enabling users to register and login securely.
- Implemented object-oriented programming principles, including inheritance, to create distinct account types and databases, enhancing code modularity and scalability.

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.

Hotel Recommendation | *Python, Sqlite, Selenium, BeautifulSoup*   **November 2022**
- Developed a Python application to search for hotels based on user preferences and requirements.
- Utilized BeautifulSoup and Selenium to scrape data from multiple websites, enabling efficient search and filtering of hotels based on user-defined criteria.
- Implemented SQLite as the database management system to store the search results and relevant information obtained during the hotel search process.

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
Technologies: AWS, Docker, Linux, GitHub, Kubernetes
Graphics: Photoshop, Illustrator

Achievements / Extracurricular

- 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.