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 – Nov 2023**
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 in server.
- Collaborated with cross-functional teams to provide IT support and manage the overall network infrastructure.

Projects

Network Monitoring | *React, Express JS, Node JS, MongoDB* | link — **October 2023**

- Developed and deployed network monitoring application for Deerwalk Institute of Technology.
- Utilized Express JS for the backend server with JWT authentication and real-time device status updates.
- Automated device status updates every 5 minutes using Cron and stored data in MongoDB.
- Created a responsive frontend UI in React with context reducers, Tailwind Material UI components, and device status charts.

Life Organizer | *Django, PostgreSQL, Tailwind, Celery, RabbitMQ, Google Calendar API* — **August 2023**

- Developed a Django web app with Task Management, Goal Tracking, Notes, Calendar Sync, and Analytics.
- Implemented secure authentication using Django and PostgreSQL for user management.
- Integrated Google Calendar API for synchronizing events with local calendar.
- Enabled email notifications for reminders using Python Celery and RabbitMQ.
- Designed an Analytics Page with various data insights through charts.

Banking App GUI | *Flutter, SQLite* — **April 2023**

- Designed a sample banking application with responsive and modern UI with Google Navbar.
- Used SQLite database to create user tables and allow users to register and login using proper authentication system.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

Auto Fortigate User | *Python, Selenium, Pandas* — **Janauary 2023**

- Created a Python application using Selenium to automatically add users into the Fortigate Firewall.
- Used libraries like Pandas to extract the list of necessary data from an Excel sheet to pass it to Selenium to create new items in the Firewall.

Technical Skills

Languages: JavaScript, Python, C, C++, Dart, HTML/CSS, SQL
Frameworks: React, Express JS, Node JS, Django, Flutter, Tailwind
Technologies: AWS, Docker, Linux, GitHub
Graphics: Photoshop, Illustrator

Achievements / Extracurricular

- Finalist at Step Into The Future, an International Forum for Scientific Youth at Russia.
- Winner of Python Coding Challenge from Software Club, Deerwalk Institute of Technology.
- Winner of Photo Manipulation Competition from DWIT Media Club, Deerwalk Institute of Technology.
- Past Executive member of Deerwalk Developers Community.
- Past Executive member of Deerwalk Music Club.
- Achieved Data Analyst career track from DataCamp.