Hassan Rehan

SENIOR SOFTWARE ENGINEER

Professional Summary

Experienced Web Developer with 4 years in the industry, specializing in Next.js, Python, and Django. Highly proficient in developing high-quality web applications, leveraging AWS Serverless architecture, and creating engaging user experiences. Adept at problem-solving and committed to contributing to innovative projects. I am seeking opportunities to apply my skills in Next.js and Python to drive impactful solutions.

Experience

TopDevSpace LLC | Senior Software Engineer

- Developed and maintained web applications using Django and Python.
- Implemented AWS Serverless architecture including Lambda functions, SQS queues, S3 storage, and DLQs.
- Managed EC2 instances and ensured seamless integration with Django applications.
- Enhanced application performance and security on AWS.

Bitnine Global Inc. | Senior Software Engineer

- Worked on core web services and websites using Bitnine's RDB+GDB multi-model graph database.
- Wrote efficient code and collaborated on projects involving graph technology, big data, and database management systems.
- Developed new features and maintained existing ones, ensuring high-quality software development practices.

Erays Technology | Junior Software Developer

- Contributed to developing Erays' flagship product, which is focused on foot mapping technology.
- Created a comprehensive heat map of feet using 48 sensors, highlighting technical and problem-solving skills.
- Collaborated with a team to ensure the accuracy and reliability of the product.

Relevant Projects

Article Recommendation System

- Developed a full end-to-end model for recommending articles to users based on their interests and reading history.
- The website was built using Django and leveraged BERT for natural language processing.
- The system utilized advanced techniques in information retrieval, natural language processing, and data science to accurately identify and recommend relevant articles to users.

Incio

- Led the development of Incio, a scheduling and business management application.
- Integrated Zoom and Google Meet APIs to enable users to schedule and host meetings.
- Implemented a calendar feature that displays scheduled events and meetings.
- Developed an invoicing module, allowing users to easily generate and send invoices.
- Implemented customer management functionalities to store and manage customer information.
- Created and sent business documents such as proposals and contracts using the application.

Pooling Drone Delivery System

- Developed an innovative algorithm for pooling drone deliveries, considering factors such as wind resistance, height, weight, distance, and priority of the package.
- Calculated the BCR relationship with these factors to optimize delivery efficiency and effectiveness.
- Created an end-to-end business model that allows users to send and track packages, while providing administrators with visibility into the shortest and quickest delivery paths.
- Successfully demonstrated the ability of the algorithm to maximize the number of packages carried by drones while minimizing delivery time and cost.

Education

Bachelor of Engineering in Software Engineering

National University of Sciences and Technology (NUST)

Core Competencies

- Next.js
- React.js
- MERN full-stack
- Django
- Flask
- AWS Serverless (Lambda, SQS, S3, DLQ)
- EC2
- Front-end & back-end web development
- Agile leadership and scrum master
- Agile software development
- Test-driven development
- Source control (Git)

Certificates

- **Generative Adversarial Networks (GANs)**
  This course is part of the Generative Adversarial Networks (GANs) Specialization offered by deeplearning.ai. It covers the fundamentals of GANs and teaches you how to build and train GANs using PyTorch. It also covers advanced topics such as conditional GANs, StyleGANs, and more.
- **Deep Learning**
  This course is part of the Deep Learning Specialization offered by deeplearning.ai. It covers the foundations of deep learning, including neural networks, convolutional neural networks, recurrent neural networks, and more. It teaches you how to build and train deep learning models using TensorFlow.
- **Advanced Node.js**
  This course teaches you how to build scalable web applications using Node.js, Express, and MongoDB.
- **Modern React with Redux**
  A comprehensive course on building and deploying web applications with React and Redux, covering topics such as hooks, functional components, custom hooks, Redux Thunk, React Router, authentication, testing, and deployment.