

Summary Versatile professional excelling in both full-stack development and DevOps/Site Reliability Engineering.

Specialized in designing, automating, and optimizing mission-critical deployments on AWS. Proficient in full-stack web application development and well-versed in DevOps processes. Leveraging skills in configuration management, CI/CD, Docker, Kubernetes, and other key technologies. **Skills**

Dev Ops Skills: Docker • Kubernetes • Jenkins • Amazon Web Services (AWS) • Ansible • Terraform •

Development Skills: HTML • CSS • JavaScript • TypeScript • React.js • Node.js • Express.js •

• Responsive Design • API Integration • Git (Version Control) • Package Managers (npm, Yarn) • Command Line/CLI • Spring Boot •REST API **Problem Solving Skills :** DSA (Data Structures and Algorithms), System Design Other Skills: Java, (OOP) Object-Oriented Programming, python

Experience & Projects

(searching, sorting, filtering, pagination). Utilized SocketIO for real-time sales charts and chat

Project Explanation Video: https://www.youtube.com/watch?v=GZmKJRPNlnI&t=414s Project Itself: https://github.com/nelson2064/fullstack-ecommerce **PROJECT 2 : Full Stack Blog Website** Crafted a Full Stack Blog Website utilizing Node.js and Express.js for server creation and request

user interface. Implemented advanced authentication with JSON Web Tokens and Google OAuth (Firebase), along with user-friendly features like image uploads. Developed an advanced search

functionality and a sleek admin dashboard and much more.

Project Explanation Video : https://www.youtube.com/watch?v=UgIWcFKet80

PROJECT 3: Full Stack Social Media Website With All Features Same Real World • Developed a social media platform using JavaScript, Node.js, Express, and MongoDB, with Cloudinary for image storage. Integrated Socket.IO for real-time features like tweets, likes, comments, and retweets. Implemented user profiles, followers/following functionality, and instant messaging with support for both one-on-one and group chats. Included features such as

• Developed an advanced movie review app resembling IMDB, featuring an admin panel for movie management, user ratings, and actor additions. Implemented a full backend API using Node.js, Express, MongoDB, and Cloudinary, incorporating role-based authentication, email verification, and protected routes. The frontend, built with React JS and Tailwind CSS, boasts an advanced UI with sliders, live search, and rating models. The project demonstrates proficiency in complex

validation, live search fields, custom auto-scroll sliders, and intricate form handling. Utilized

MongoDB, and Stripe. Mastered frontend/backend Full Stack/MERN Stack, implemented AWS IAM, SES, and S3 for secure email and storage, and utilized Stripe Connect for a fully automated payment system. Delivered a production-ready authentication system, role-based access, and a scalable learning management system (LMS) with global state management. Deployed on Digital

schemas, utilized Redux Toolkit for state management, and integrated JWT authentication for user security. Designed separate user interfaces for both users and admins, enabling admin control over wallet access. Implemented real-time updates for CRUD operations in payments, incorporated Stripe for deposit functionality, and facilitated user-to-user fund requests. Utilized Ant Design Library for UI components and hosted the application on Heroku. This project demonstrates proficiency in full-stack development, payment integrations, and real-time

Project itself: https://github.com/nelson2064/movie-review

PROJECT 6 : Full Stack Wallet Application Online Payment System • Build a comprehensive MERN Stack Online Payments/Wallet Application, showcasing expertise

Project Explanation Video : https://www.youtube.com/watch?v=VCz1ZxhAnEw Project itself: https://github.com/nelson2064/wallet PROJECT 7: Full Stack Real State Website Like We Have In Real World Developed a feature-rich MERN stack real estate application, mastering advanced authentication with JSON Web Tokens and Google OAuth for seamless user login. Implemented real-world CRUD operations with MongoDB, allowing users to effortlessly create, read, update, and delete property listings. Enhanced the user experience with intuitive features, including multi-image

pages, user authentication, and user data storage in Redux. Designed a user-friendly messenger page with features like friend display, message handling, emoji and image message support, realtime active user updates, and message notifications using Socket.io. Ensured a seamless user

Project itself: https://github.com/nelson2064/Real-Estate-Web

application's reliability.

PROJECT 8: Full Stack Live Chat Application / Like Messenger

and Friends Invitation System to enhance user engagement. Leveraged SocketIO and MongoDB for the development of real-time chat functionality, allowing seamless communication between

 Developed the cutting-edge project utilizing the MERN stack combined with WebRTC and SocketIO, focusing on real-time communication features. Successfully implemented a robust authentication system using JWT tokens for login and registration. Built a comprehensive Friends

• Established a local web application stack using Oracle VM Virtual Box and Vagrant for automation. The multi-tier architecture included Nginx, Tomcat, RabbitMQ, Memcached, and MySQL. This project served as a baseline for future work, enhancing my ability to conduct efficient R&D on diverse real-world projects, and the automated setup ensures repeatability, boosting confidence for making changes and thorough experimentation.

Dev Ops Experience & Dev Ops Projects

Project Explanation Video : https://www.youtube.com/watch?v=7e4IO2zy2Kc project 4

Project Explanation Video: https://www.youtube.com/watch?v=-OkR8W3nsYg

Project Explanation Video: https://www.youtube.com/watch?v=MwlTQuvM55Q

quality standards throughout the development lifecycle

Project Explanation Video : https://www.youtube.com/watch?v=PKnGNNdm-5A

Project Explanation Video: https://www.youtube.com/watch?v=6PCqnPrwLVQ

streamlined, automated, and cost-efficient model.

deploying and optimizing AWS resources for actual application scenarios.

for version control and CodeArtifact for Maven dependencies. Automated build processes, integrated SonarQube for code analysis, and stored results in an S3 bucket. Achieved efficient CI without explicit mention of continuous deployment.

efficiency in an Agile SDLC environment.

infrastructure, optimizing processes, and reducing the risk of human errors. Achieved increased business value, revenue growth, and operational efficiency through cloud automation Project Explanation Video: https://www.youtube.com/watch?v=maay5AsRyPE

involved automating VPC setup, deploying V profile application stacks, and orchestrating services like MySQL, Memcache, RabbitMQ, and Tomcat. The project streamlined operations, ensuring

repeatability, agility, and reduced manual errors in a rapidly changing environment.

pipeline, enhancing speed, reliability, and automation in software delivery.

reduction, and improved deployment efficiency Project Explanation Video : https://www.youtube.com/watch?v=eiOroBEtMs4&t=6s project 13

• Led the implementation of Project Cloud State with TerraForm, automating cloud infrastructure setup and maintenance. Utilized TerraForm to orchestrate the deployment of a secure and highly

applications • Led the implementation of a Continuous Delivery project for Docker containers, automating

Project itself : https://github.com/nelson2064/social-media **PROJECT 4: Movie Review Website**

Cloud Storage for images and videos.

Project Explanation Video: Project itself: https://github.com/nelson2064/LMS

uploads and modifications, while implementing cutting-edge search functionality for efficient filtering and sorting. Leveraged React.is and Tailwind CSS for a modern and responsive user interface. This comprehensive project showcases proficiency in MongoDB, Express.js, React, and Node.is. Project Explanation Video : https://www.youtube.com/watch?v=qvj1DKdnhvw

• Buid a feature-rich MERN Stack real-time chat application, implementing login and register

experience with real-time message options, delivered message status, logout system, theme customization, and friend search functionality. Proficiently handled errors to enhance the

users. Additionally, created Video Group Call Rooms, showcasing expertise in WebRTC through the implementation of simple-peer.

Project Explanation Video: https://www.youtube.com/watch?v=oZ4WdOS 0eQ project 2 • Led the deployment of a real-world application on AWS, spanning globally. Orchestrated various services, including EC2 instances (hosting Tomcat, RabbitMQ, Memcached, MySQL), Elastic Load Balancer, Auto Scaling, S3 for file storage, Route 53 for managing web addresses, and Amazon Certificate Manager for secure HTTPS connections. Demonstrated practical expertise in

• Experience in deploying application stack on AWS, utilizing services such as Elastic Beanstalk, RDS, Elasticache, Amazon MQ, Route 53, and CloudFront. Addressed challenges related to operational efficiency, scalability, and cost-effectiveness, transforming the infrastructure into a

• Implemented a robust DevOps continuous integration pipeline using Jenkins, GitHub, Maven, Checkstyle, SonarQube, Slack, and Nexus. Set up AWS EC2 instances for Jenkins, Nexus, and SonarQube servers. Achieved quicker fault isolation, shorter mean time to repair, and faster code change turnaround. Project Explanation Video : https://www.youtube.com/watch?v=5utoLUU9QQw project 5

• Implemented a streamlined DevOps pipeline leveraging AWS services. Utilized AWS CodeCommit

• Led a successful Continuous Delivery initiative, utilizing Jenkins, Maven, and SonarQube for

CI/CD and code analysis. Implemented Docker for containerization and orchestrated seamless deployments with AWS ECR and AWS ECS, achieving end-to-end automation and enhanced

Orchestrated an end-to-end AWS CI/CD pipeline for Java full-stack applications, seamlessly integrating CodeCommit for version control, CodeArtifact for Maven dependencies, and CodeBuild for diverse build jobs. Automated releases with CodeDeploy to AWS Beanstalk, utilizing S3 buckets for deployment artifacts. Incorporated RDS for robust database management, ensuring optimal application performance. Elevated software testing processes, integrating SonarCloud, Checkstyle, and comprehensive software testing, to maintain rigorous

 Led the implementation of a cloud automation project with Ansible, orchestrating the setup of a secure and highly available VPC on AWS. Automated the deployment of diverse cloud

Project Explanation Video: https://www.youtube.com/watch?v=wDnGtVr6I90 project 11 Led implementation of a Continuous Delivery Hybrid system using Jenkins for CI, incorporating PaaS and SaaS services such as Elastic Beanstalk and AWS S3. Orchestrated deployment pipeline, integrating on-premises and cloud services for seamless continuous delivery

Led the setup of Kubernetes clusters on local and cloud environments, utilizing tools like

single-node and multi-node clusters for both local testing and production-grade scenarios

MiniKube, kubeadm, KOPS, and AWS EKS Successfully tested containerized applications on

the application across various environments, ensuring platform independence and efficient

Led a DevOps project focusing on Continuous Delivery (CD) with Jenkins and Ansible. Integrated

Jenkins for continuous integration and Ansible for automation, streamlining the deployment process across multiple environments. Utilized technologies including Jenkins, Ansible, GitHub, Maven, Nexus, SonarQube, Git, Slack, and AWS (EC2, Route 53). Implemented a robust CD

 Orchestrated the end-to-end deployment of a Java-based multi-tier web application stack on Kubernetes, leveraging tools such as KOPS for cluster setup, AWS EBS volumes for persistent data, and Kubernetes services for seamless scaling and high availability. Successfully deployed

Project Explanation Video: https://www.youtube.com/watch?v=RB5GoUwMNZk

available VPC, integrating services like AWS Elastic Cache, Amazon MQ, RDS, and EC2 instances for a resilient cloud environment Project Explanation Video: https://www.youtube.com/watch?v=BxrAzB30zxU

Led the implementation of a Continuous Delivery project for Docker containers, automating build, test, and deployment processes. Utilized Kubernetes for container orchestration, Docker for building and testing images, Jenkins for CI/CD pipeline, Helm for packaging and deploying, Git for version control, Maven for building Java code, and SonarQube for code analysis. Achieved seamless continuous delivery, ensuring fast and automated deployment of containerized Project Explanation Video: https://www.youtube.com/watch?v=LNHr3ZWw2IQ

build, test, and deployment processes. Utilized Kubernetes for container orchestration, Docker for building and testing images, Jenkins for CI/CD pipeline, Helm for packaging and deploying, Git for version control, Maven for building Java code, and SonarQube for code analysis. Achieved seamless continuous delivery, ensuring fast and automated deployment of containerized

Python • Shell scripting • Linux • Git • Cloud Formation • Ubuntu • Centos • Vagrant • Virtualization

MongoDB • MySQL • SQL • GraphQL • Next.js • Tailwind CSS • Redux • Recoil • WebRTC • Socket Io

Full Stack Experience & Projects PROJECT 1: Full Stack Ecommerce With All Feature Including Real Time Chat • Implemented a full-stack e-commerce application using React, Bootstrap, Express.js, Node js and MongoDB. Integrated features such as shopping cart, user authentication (login/register), PayPal

payment, image uploading to Cloudinary and local disk, and advanced product list functionalities functionality, ensuring a seamless user experience, incorporating React local state and Redux state for efficient state management and much more.

handling, MongoDB for real-world CRUD operations, and React for a modern and responsive

Project Itself: https://github.com/nelson2064/blog

profile pictures and cover photos, creating a dynamic and interactive social experience and much

Project Explanation Video : https://www.youtube.com/watch?v=NkWZWMFDU-U&t=147s

Project Explanation Video : https://www.youtube.com/watch?v=183PIPe6bDl PROJECT 5: Full Stack LMS eLearning Marketplace / Udemy like Website • Developed a full-stack eLearning marketplace / Udemy like website using Next.js, React, Node.js,

Ocean Cloud.

functionalities.

in MongoDB, Express.js, React, and Node.js. Implemented complex MongoDB queries and

Project Explanation Video : https://www.youtube.com/watch?v=Nq9YZHI9u7U Project itself : https://github.com/nelson2064/fullstack-pushed PROJECT 9: Full Stack Discord Clone With Video Calling & Chat Features

Project Explanation Video : https://www.youtube.com/watch?v=K3UkgGmynd8 Project itself: https://github.com/nelson2064/discord project 1

project 6

project 7

project 9 • led a comprehensive Ansible-based project Complete Provisioning with Ansible . This initiative

project 10

Project Explanation Video : https://www.youtube.com/watch?v=2c0DXg1Txh4 • Led the containerization of a multi-tier application stack, including services like Ngin X, Tomcat, MySQL, Memcache, and RabbitMQ. Utilized Docker, Docker Compose, and Docker Hub for image creation, customization, testing, and deployment. Achieved resource optimization, cost

Project Explanation Video: https://www.youtube.com/watch?v=ZRpeKyCS2ns

project 14

container orchestration

Project Explanation Video: https://www.youtube.com/watch?v=cyiw-CtggUQ

Project Explanation Video: https://www.youtube.com/watch?v=j13OtA8EtE8 project 3

project 8

project 12

project 17 applications

project 16

project 15