

Naseer Cherukkattil

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Objective: Experienced DevOps engineer with a strong background in full-stack development seeking a challenging position.

HIGHLIGHT OF QUALIFICATIONS

- Proficiency in object-oriented programming like JavaScript and Typescript.
- Experienced in utilizing DevOps tools in conjunction with Kubernetes.
- DevOps Engineer with over 3 years of experience specializing in AWS, Linux, Terraform and Pulumi

TECHNICAL SKILL

Full Stack Development

Programming:	JavaScript, Typescript.
Front-end:	reactJS, react-native, nextJS
Back-end:	nodeJS, nestJS, Auth2.0,
Database:	MongoDB, PostgreSQL, MySQL
Security:	Auth2.0, Open ID Connect, JWT based auth, Encryption

DevOps

Automation:	Terraform, Ansible, KubeCTL (Kubernetes Automation), Pulumi
Scripting:	Bash, Python
Source control:	Git
CI/CD:	GitHub Actions, Jenkins

Others

Blockchain:	Aries Cloud Agent Python (ACA-Py), AFJ, Ethereum(solidity)
Cloud Platform	AWS, GCP
Project Management:	Trello, Slack, discord, GitHub Project, Jira

EMPLOYMENT EXPERIENCE

DevOps Engineer

December 2020 - Present

VeriDID Corp | Canada

- Worked on Pulumi, creating functions like creating EKS clusters, setting up AWS Load Balancer controllers, setting up ArgoCD, creating ingress, VPC link security group, AWS API Gateway, VPC Link, and Cognito authorizer.
- Implemented robust infrastructure using Terraform to create an AWS EKS (Elastic Kubernetes Service) cluster, streamlining deployment and management of containerized applications.
- Build a continuous integration and deployment pipeline that automates the testing and deployment of code changes, while also securing the application with authentication and authorization.
 - o *Develop GitHub workflows for automated testing and building of code:* Set up workflows that automatically test code changes pushed to the GitHub repository using tools like GitHub Actions. The workflows should then build the Docker images from the source code, and store the images in the GitHub container registry.

- *Deploy the Docker images to Kubernetes clusters on Amazon EKS:* Create an Amazon EKS cluster and use Kubernetes to deploy the Docker images to the cluster. This will involve creating Kubernetes deployment and service objects for the application, specifying the container image, and configuring any necessary environment variables and secrets.
- *Set up an API gateway with AWS API Gateway:* Create an API Gateway in AWS to expose the application to the public internet.
- *Implement Authentication with AWS Cognito:* Use AWS Cognito to manage user authentication and authorization for the API Gateway. This will involve creating a user pool, configuring the authentication and authorization settings, and integrating the user pool with the API Gateway.
- *Terraform:* Implemented a robust infrastructure using Terraform to create an AWS EKS (Elastic Kubernetes Service) cluster, streamlining deployment and management of containerized applications.
- Participate in the development of VeriDID application as a full stack developer:
 - Develop the web application in Next.js and the mobile app in React Native, implementing the necessary features and functionality to allow users to verify SSI credentials.
 - Use REST APIs to enable the front-end to retrieve and display data from the back-end, and to send user inputs and requests to the back-end for processing.
 - Use testing frameworks like Jest to test the application thoroughly to ensure that it works as expected, and debug any issues that arise.
 - Integrate Aries JavaScript Framework and PostgreSQL into nestJs backend code.
 - Tools were used: GitHub, GitHub Projects, GitHub Actions, YAML workflows, AWS EC2.

Class Tutor (contract)

January 2021 – April 2021

George Brown College | Canada

Class: Blockchain Development Program Term 1

- Assist student on learning decentralized application (Solidity programming) and Blockchain Security.

Blockchain Developer (Intern)

September 2020 – December 2020

Northern Block | Canada

- Developed the front-end and back-end for an MVP of a decentralized marketplace for aeronautics parts using ReactJS with Material UI, NodeJS, ExpressJS, GraphQL, TrinsicSDK, and MongoDB.
- Worked in a team environment, collaborating with designers, developers, and stakeholders to deliver a high-quality product within a tight deadline.
- Contributed to the development of a secure and scalable platform that leverages blockchain technology to provide transparency and traceability in the purchase and sale of aeronautics parts.
- Skills
 - Front-end development: ReactJS, Material UI
 - Back-end development: NodeJS, ExpressJS, GraphQL, TrinsicSDK, MongoDB
 - Agile development methodologies
 - Team collaboration and communication

Software Developer (Volunteer)

June 2020 – September 2020

Convergence.Tech | Canada

- Contributed to the development of a Verifiable Credential application by providing front-end support using MaterialUI and React, and implementing the Joyride npm package manager.
- Worked closely with the development team, designers, and stakeholders to ensure the successful delivery of a user-friendly and visually appealing product.
- Demonstrated strong problem-solving skills and attention to detail in troubleshooting and resolving technical issues.
- Skills
 - o Front-end development: React, MaterialUI
 - o Agile development methodologies
 - o Team collaboration and communication

EDUCATION

Postgraduate Certificate (Hon's)

January, 2020 – December, 2020

George Brown College | Toronto, Ontario

- Completed a rigorous program in *Blockchain Development*, focused on developing technical expertise in blockchain technology, smart contracts, full stack development and decentralized applications.
- Gained hands-on experience through a variety of projects, including:
 - o Chat application with Socket.io
 - o Decentralized application for aviation parts MVP
 - o Website design using HTML, CSS, and basic contact form
 - o Passport as Verifiable Application MVP with Opencerts
- Demonstrated strong analytical and problem-solving skills, as well as a commitment to staying current with emerging trends and best practices in the field.

Bachelor of Engineering (Hon's)

August, 2006 – November, 2009

University of Sunderland | Sunderland, UK

- Completed a comprehensive program in Electronics and Electrical Engineering, with a focus on developing strong analytical, problem-solving, and technical skills.
- Relevant coursework includes:
 - o SCADA and PLC
 - o Embedded System Control Programming
 - o Circuit Analysis and Design
 - o Signals and Systems
 - o Digital Electronics
- Demonstrated the ability to apply theoretical knowledge to real-world problems through laboratory work, individual projects, and group assignments.
- Developed strong communication and teamwork skills through group projects and presentations.

ReferencesReferences available upon request.
