

Nanthakumaran S

SOFTWARE DEVELOPER · CLOUD & DEVOPS ENTHUSIAST

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Work Experience

Presidio Inc.

Chennai, India

ASSOCIATE ENGINEER TRAINEE

Mar. 2023 - Present

- Developed an Expense Tracker Application with ASP.NET, React Js, AWS S3, SQL Server & Redis
- Developed custom statement and invoice preparation functionalities, allowing users to generate personalized financial documents tailored to their specific needs and sending invoices to users via email, ensuring convenient access to the generated invoices
- Integrated recurring subscriptions support for monthly and yearly payments, simplifying the management of subscriptions
- Utilized analytical charts to provide users with visual representations of their expenses, to gain insights into their spending patterns

HelpNow

Mumbai, India

FLUTTER DEVELOPER INTERN

May. 2021 - Jul. 2021

- Collaborated with senior software developers to develop a scalable mobile application, facilitating the digitization of patient-doctor interactions
- Implemented an efficient data fetching mechanism that dynamically adjusted based on the device's internet status, ensuring seamless data retrieval and reducing bandwidth usage by 30%
- Optimized React JS screens, resolving design issues and improving the web application's performance to achieve a PageSpeed index of 98% in performance and 99% in other aspects

Projects

ETL Pipeline using Kafka

A REAL-TIME ETL PIPELINE TO ANALYZES TWEETS AND NEWS | [GITHUB.COM/NANTHAKUMARAN-S/ETL-PIPELINE](https://github.com/nanthakumaran-s/ETL-PIPELINE)

- Designed and developed a real-time ETL pipeline for tweets and news data using Python, Kafka with Zookeeper, AWS (Crawlers, Glue, Athena), and ELK (Elasticsearch, Kibana) Stack. Utilized Kafka with Zookeeper for real-time data streaming
- Integrated AWS Athena for querying and analysis of the processed data stored in S3 buckets. Utilized Elasticsearch to store and index the processed data and Kibana to create a custom dashboard, providing visualizations and insights for in-depth analysis of the processed data

CloudOpsMate

A CLOUD AUTOMATION PLATFORM FOR CLOUD PROVIDERS

- Developed a cloud infrastructure platform using React Js, empowering users to seamlessly work with various cloud providers
- Designed and implemented the backend using Node.js and leveraged MongoDB as the primary database
- Wrote Terraform scripts to automate changes in cloud services. Integrated CI/CD pipeline using GitHub Actions, incorporating Web Sockets for real-time updates

Argon

E-LEARNING APPLICATION FOR DON BOSCO COLLEGE | [XENONLABZ.GITHUB.IO/ARGON](https://xenonlabz.github.io/argon)

- Developed an e-learning application using Flutter and Firebase, providing a digital platform for managing students. The application included features such as video tutorials, class lecture notes, class schedules, and in-app assignments
- Employed efficient state management techniques and robust architecture to optimize application performance and enhance user experience
- Assisted Don Bosco College in managing the education of over 60 rural students through the implementation of the e-learning application

Algorithm Visualizers

SORTING & PATH FINDING VISUALIZERS | [PATH.NANTHAKUMARAN.COM](https://path.nanthakumaran.com) • [SORT.NANTHAKUMARAN.COM](https://sort.nanthakumaran.com)

- Developed a Path Finding Visualizer using React.js, allowing users to observe the Dijkstra's algorithm in action and visualize the process of finding the shortest path
- Created a Sorting Visualizer using React.js, providing users with a visual representation of popular sorting algorithms such as merge sort, quick sort, bubble sort, selection sort, and insertion sort

Skills

Programming Python, JavaScript, TypeScript, Node Js, Dart, C#

Technologies React Js, Next Js, Flutter, Flask, .NET, SQL Server, PostgreSQL, MongoDB, Redis, Kafka, ELK Stack

Cloud & DevOps AWS, Docker, Kubernetes, Terraform, GitHub Actions

Education

Kongu Engineering College

Tamil Nadu, India

B.E. IN ELECTRONICS AND COMMUNICATION ENGINEERING

2019 - 2023

- Cum GPA: 9.34 / 10