Nitheesh
Senior Software Engineer

Results-driven Senior Software Engineer with expertise in frontend and backend development, as well as DevOps with over 5+ years of experience. Successfully delivered multiple projects while taking ownership and ensuring exceptional results. Dedicated and detail-oriented professional committed to optimizing application performance and scalability.

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Work

Senior - Software Engineer
Techjays
Jan 2021 – Present

- Took ownership of several projects and delivered it successfully
- Picked up a new stack and delivered it in time while maintaining code quality (golang, dynamodb, aws lambda)
- Developed api endpoints for several projects with using Django Rest Framework, Nodejs and Golang.
- Have experience in devops and setting up CI/CD pipelines in GitHub actions
- Worked on quantitative stock trading algorithms & building clean code with a hyper focus on high performance code.

Executive - UI Development
Shri Harini Media Ltd
Jul 2019 – Jan 2021

- Created a search app with filter, suggestions and pagination using React and azure search api.
- Developed a few single page products for kids and parents (Gadget Free Hour, Little learners at home [subscription model]) with Django (both frontend and backend).
- Developed APIs for posting Forms and logging user activity.
- Developing admin panel for article and other content management (both frontend and backend) with Django Template and APIs to interact with forms.
- Integrated flora editor (frontend and backend) in Django and customized it based on requirements.
- Automated deployment process with github actions and some bash script
- Automated build process with github hooks.

Web Designer
SMART Training Resources India Private Ltd.
Sep 2018 – Jun 2019

- Revamped parts of the company's website using vanilla js and Jquery.
- Did front end design for managing faculty
- Revamped SMART India website completely with Pug and SASS.

Web Designer
White Heights Entertainment Pvt. Ltd.
Jan 2018 – Sep 2018

- Created whiteheights.com with Pug and SASS
- Made Datamorphix.ai website in wordpress
- Created a svg animation of their business model using anime js (https://www.datamorphix.ai/product-overview)
- Used Wordpress to build vikasaclinic.com website and customized the website based on clients requirements that wordpress doesn't support
- Attended Client meetings to discuss project scope and requirements

Education

Velammal Institute of Technology (Anna University)
Jan 2012 – Jan 2016

Courses

- Bachelor of Information Technology

Projects

Stockmints
Senior Software Engineer at **Techjays**
Jan 2021 – Jan 2022

Stockmints is a yet-to-be-released product of Techjays - a marketplace and platform for the creation, execution, and monitoring of trading algorithms. The platform provides real-time stock price and order book data to consumers and also has an execution pipeline to execute the algorithms of the consumers to perform live trades. The performance of the trades is captured, and the results are provided to buyers on a marketplace platform.

- Designed and developed backend pipeline to fetch and process data and apply algorithms dynamically using Apache Airflow
- Designed schema on PostgreSQL and Timescale
- Used Docker to containerize microservices related to the marketplace platform
- Boosted the performance of algorithm execution by storing common intermediate computations in Redis cache
- Built an efficient ingestion layer using websockets with multiple brokers and queues in Redis
- Deployed builds to different environments like dev, qa, and production in AWS EC2 instances and managed it with PM2 and bunyan to log all the data
- Implemented CI/CD in GitHub Actions to automate Test, Build, and Deploy
- Customized and deployed Apache Superset for dashboarding purposes

ArenaCX
Senior Software Engineer
Jan 2022 – Aug 2022

ArenaCX is a global BPO marketplace for outsourcing partners to connect clients with relative needs. Handling data from Monday CRM and migrating it to their own platform that product admins can use as a CRM. Leveraging AWS as much as possible, it is built for optimized performance to handle large datasets.

- Developed the entire application with Lambda APIs and deployed it using AWS API Gateway.
- Developed workflows to import and sanitize data from Monday CRM to modify data required for the application along with the help of AWS CloudWatch.
- Overcame complex technical obstacles, including a 15 min runtime limitation for AWS Lambda and strict API update limitations to transfer a large volume of partner data to a 3rd party application.
- Managed user pools, login, and user credentials with AWS Cognito.
- Designed and implemented a scalable database solution to accommodate a dynamic number of fields (up to 200).
- Migrated Google Analytics data from Big Query to AWS Redshift using AWS Glue, S3, and Lambda for cost-effective analysis.

Forcefield
Senior Software Engineer
Aug 2022 – May 2023

Forcefield is a real-time social women safety app. It is a unique take on women's safety, which works by bringing the friends and family of a person into the real-time geo and biometric context of the user. It facilitates the transmission of data in real time by establishing websockets with all clients and has a scalable architecture by partitioning the websocket servers by leveraging the social graph of the userbase.

- Designed and developed the websocket system for close to real-time transmission of data between users
- Constructed backend infrastructure using AWS components, including EC2 instances, a load balancer, target groups, RDS databases, and SQS queues
- Implemented CI/CD pipeline using GitHub Actions
- Made the system horizontally scalable by creating a social graph-based sharding strategy for sharding the websockets
- Used Firebase for real-time notifications for app clients
- Used Firebase realtime database for improving app performance
- Used Celery to implement a background workflow system for data analysis jobs

Skills

Frontend
- ReactJs
- Typescript / JavaScript
- HTML / JSX
- SCSS / CSS

Backend
- Python
- Django
- node.js
- Golang
- Postgres
- Redis
- Dynamodb
- Serverless

Devops
- AWS
- Docker
- Github-Actions

Languages

English
Professional working proficiency

Tamil
Native speaker