

Suresh kumar

A Full Stack Engineer with 10+ years of experience.

International Experience | Individual contributor | Problem Solver

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Recent Achievements (2023-2024)

Problem statement : One of our clients was having internet issues at their production site and so were facing difficulty in using our web solutions.

Solution : I proposed and developed an application capable of scanning, listing, and connecting to available IoT devices on an intranet for message and large file transfers. I completed this project in a record two months, saving the company **USD \$25,000** by avoiding the need for outsourcing.

Problem statement : Data (3D files to print) needs to be manually processed in a predefined workflow before they can be consumed. Average processing time is around 20 mins for each print.

Solution : I worked as an individual contributor on a project to build an automated workflow solution, which I delivered in three months. This project involved collaboration with a third-party service provider and resulted in a savings of approximately **USD \$30,000** for the company.

Problem statement : Our entire infrastructure is deployed on AWS. Monthly AWS spending was increasing consistently.

Solution : Took audit of the AWS services used and optimized the usage to reduce the monthly cost by 50%.

Work Experience

Structo, Singapore – Senior Full Stack Developer / Individual Contributor
(January 2023 - Present)

As the lead, I guided the team in architecting the cloud infrastructure and developing an Electron-based desktop application for 3D printers. My leadership contributed to the successful launch of two new 3D printers in the market.

Some of the work highlights:

- Successfully designed and delivered a desktop based fleet management solution.

SKILLS

Competencies

Node Js,
Rest API's, Redis,
Microservices,
Docker,
SOLID principles,
Event-driven
architecture,
NoSQL, YAML,
GitHub Actions,
AWS, Kubernetes,
Desktop Applications,
Agile Methodology

Frontend

React Js,
React hooks,
Electron Js,
TypeScript,
Jest, React Testing
Library, Antd,
Semantic UI,
MUI, Tailwind CSS,
Styled components

- I was part of the delivery team to successfully launch 2 new advanced commercial printers.
- Developed an web based admin tool for internal teams to register commercial printers, provide statistical data.
- As an individual contributor, collaborated with external vendors to design and develop an automated workflow solution for files pre-processing.

SparesCNX (Magellan X), Singapore – Senior Full Stack Developer (September 2021 – November 2022)

The proprietary application, Propeller, aims to bring order to inventory chaos in the shipping industry. It addresses complex, age-old issues of inventory management and provides a complete workflow from inventory sourcing to boarding onto the vessel.

Some of the work highlights:

- As an individual contributor, implemented application features and worked closely with Product Owner's and data team for queries, discussion, and client feedback.
- To write testable code for both Frontend and Backend and adherence to SOLID principles for API development.
- Storybook integration for UI components.

Bank Of Singapore, Singapore – Senior Full Stack Developer (June 2020 – September 2021)

- Responsive application development using React Js and Spring Boot stack.
- Design and development of auditable higher order UI components to track user journey in the applications.
- Private monorepo based NPM package for bank's UI components.
- React testing library for testing react components.
- End to end feature development - designing UI, API, integrating with DB and integration tests.
- My pitch to the Bank's 'Innovation Forums', is selected and approved for implementation.
- Writing testable UI components using react Js, hooks, Mobx.

Optimum Solutions, Singapore – Senior Application Consultant (June 2020 – September 2021)

- Application development with React web hooks.
- Writing reusable components to be shared across applications.
- As a frontend developer, tasked to build the application and work closely with clients and PO on feedback and new feature implementations.
- This application is for the relationship managers to handle their client portfolios.

Iotium, India - Senior Developer (July 2017 - Feb 2019)

- Designing and implementation of Iotium Web application, used by our clients for monitoring their iNodes (hardware like gateway), creating docker based services and user management.
- Created a JSON based UI template rendering library, used by clients to create dynamic UI based on their requirements.

EC software, India - Senior Developer (February 2015 - July 2017)

- Implemented features for managing magazines, flyers, and digital content.

Backend

Node Js, Express Js,
Nest Js, Strapi,
Jest, Supertest,
Redis, Inversify,
Sequelize, Mongoose
New Relic, Grafana

Database

MongoDB,
PostgreSQL,
CouchDB

Cloud (AWS services)

S3, Lambda, SNS,
EKS,
MSK, EC2,
OpenSearch,
CloudWatch, SSM

CI/CD

GitHub Actions,
Jenkins, YAML

Protocols

TCP/IP, gRPC,
Bonjour, WebSocket

Pub/Sub (Event Driven Architecture)

Kafka, MQTT

LANGUAGES

English
Hindi
Tamil

- Created a custom library used as a controller which takes the HTML string, converts them into HTML and renders UI. The rendered HTML can be edited on the fly and a preview can be seen before confirming the final submission.

COGNIZANT TECHNOLOGY SOLUTIONS, India – Web Developer

(July 2014 - February 2015)

- As a development team member, involved in creating high performance Directives, Controllers in AngularJs

Infosys Technology Limited, India – Web Developer

(September 2011 - June 2014)

- Worked as a Junior web developer with active involvement in team discussion, understanding functional requirements and work with other team members in executing the tasks.

Education

- Misrimal Navajee Munoth Jain Engineering College, Chennai - Bachelor of Engineering (Computer Science) with 7.3 CGPA (2007 - 2011)
- Sethu Bhaskara Matriculation Higher Secondary School, Chennai - 12th with 88.58%

Others

I am currently working on a personal project (SAAS product) in the fintech domain.

Technology Stack : Strapi, Next Js, PostgreSQL, AWS