

# Saravanakumar A

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## EDUCATION

### PSG College of Arts and Science

Master of Computer Application, CGPA: 8.92/10.00

Coimbatore

Apr 2020 – Mar 2022

## SKILLS

**Programming Languages:** Javascript, HTML,

**Frameworks:** React, Node.js, Express.js

**Database/DevOps:** MongoDB, PostgreSQL, Azure(Blob storage, Webhook, Webapp), Postman, Git

## EXPERIENCE

### Aroopa Technologies Pvt Limited

Software Engineer

Chennai, IN

Jul 2022 – Present

- Integrate a **Microsoft Graph API, Webhook** to automatically process incoming emails. Upon receipt, the system will extract content and attachments, convert them to PDF, and store them in Azure Blob Storage. It will capture values from the PDF text and images, **reducing extraction time from 14 minutes to 1.5-2 minutes for a 155-page**, 25MB file. This process will be optimized to run on a **single core with 1GB of RAM**.
- Optimize the process of **uploading and downloading large volumes of files to Azure Blob Storage**, ensuring minimal time duration for the operation. Reduce the **upload time for a 2GB file from 45 seconds to 3-4 seconds** in Azure Blob Storage.
- Utilize the **Google Maps API to find locations**, determine distances between two points, and generate image files depicting the route between them
- Develop a **file system** that mimics the folder structure of Windows, enabling users to create folders and upload files. This entails **designing a schema**, implementing a back-end **REST API**, writing clean and **optimized** code, and incorporating robust **error handling**.
- Implement **Optical Character Recognition (OCR) to extract text from PDF, documents, and image files**. Optimize the recognition process for efficient extraction of information, storing the data in a database.
- Design **database schema** to accommodate new features and workflows seamlessly.
- Implemented **real time communication( Socket )** between client and server architecture.
- Read the imported CSV file data read as a **stream** and extract the CSV file data and stored into database.
- Migrate the **UI (React) and API (Express App)** from Node.js version **14 LTS to 18 LTS** in two projects. **Upgrade deprecated packages and ensure seamless integration**.
- Integrate live location tracking for regional managers using **Google Map API**
- Transforming a large-scale back-end project into a well-structured application setup, incorporating **load balance, rate limiters, and clustering, worker threads**.
- Optimize the query for **auto-suggest adjusters across 20 large tables and 2,000,000 records**. Reduce the execution time from **19 seconds to 4 seconds** to find the nearest best adjuster.
- To **automate the daily backup of a 100 GB** production database and store it in Azure Blob Storage, the process has been implemented on separate threads to ensure it does not interfere with other tasks.
- Azure cloud deployment, log monitoring, connection of CI/CD pipelines**, and continuous deployment have been implemented with knowledge of Azure DevOps.
- Create PDFs for our project using third-party packages and other relevant tools.
- I am endeavoring to contribute to Node.js and Express or MongoDB by daily analyzing their native drivers

### Aroopa Technologies Pvt Limited

Software Engineer Intern

Chennai, IN

Mar 2022 – Jun 2022

- Worked as a ReactJS developer and Node JS back-end developer

## NPM Publications ( Contributions )

### Configure-express-app

<https://www.npmjs.com/package/configure-express-app>

Published on Sep 2023

If you use the command `npx configure-express-app` in Visual Studio Code or the terminal, it will create a **advanced project setup for a Node.JS project with an MVC structure**. It will also include pre-loaded code for a basic **REST API** and automatically install certain modules as part of the setup process.

## Google-map-js

Published on Sep 2023

<https://www.npmjs.com/package/google-map-js>

This package is used to obtain the distance between two points. The distance is calculated using **Google Map API**, and a visual representation of the distance route is also available. Additionally, it provides the exact address, latitude, and longitude of the location.

## Link-to-base64

Published on Nov 2023

<https://www.npmjs.com/package/link-to-base64>

Publish a package for converting links (such as file URLs or image URLs) to base64 format, providing easy-to-use and reusable functionality.

## kill-running-port

Published on Mar 2023

<https://www.npmjs.com/package/kill-running-port>

The "kill-running-port" package has been developed to address an issue where, upon running the project on a port like 5000, it erroneously reports that the port is already in use, even when it's not. This issue necessitates a system restart to resolve. However, with the integration of this package, the restart time is significantly reduced. Simply input the port number to terminate the conflicting process, allowing the project to run smoothly thereafter.

## Certifications

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- Javascript - <https://www.hackerrank.com/certificates/iframe/0723cd6ab737>.
- Node.JS - <https://www.hackerrank.com/certificates/iframe/bbcabf23cd1a>.
- PostgreSQL - <https://www.hackerrank.com/certificates/iframe/a616c306123f>.