

# Shyamsundar Sudharsanam

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## EXPERIENCE SUMMARY

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- 4.5 years overall experience in **software development** with experience in building responsive web applications and legacy application.
- 2+ years' experience with UI development using **ReactJs, JavaScript, HTML, CSS** and state management using **Redux-Thunk**.
- Experience in consuming APIs using **Axios and Fetch API**.
- 2 years' experience with **COBOL, DB2, Webservices**
- Strong written and oral **communication skills** to share ideas and concepts with the team.
- **Agile** development methodologies including scrum and Modern waterfall in Investment Banking and Insurance
- Strong work ethic with ability to work in diverse teams and within scheduled timelines.

## SKILLS

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### Languages & Frameworks:

**Front End:** ReactJs, Redux-Thunk, JavaScript, TypeScript, HTML/HTML5, CSS/CSS3.

**Back End:** Python, COBOL

**Database:** MySQL, IBM DB2

**Testing Tools:** Jest

**Webservices:** REST API

**Integrated Development Environment (IDE):** Visual Studio Code, PyCharm.

**Software & tools:** GitHub, JIRA, Postman

## EDUCATION

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### Budapest University of Technology and Economics

Master of Science in Autonomous Vehicle Control Engineering (Doing Master Thesis)

Budapest, Hungary

Expected May 2023

### Anna University

Bachelor of Engineering in Mechanical Engineering

Chennai, India

May 2016

## WORK EXPERIENCE

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### Sasken Technologies

Software Engineer-App Software

Chennai, India

Dec 2020 – Aug 2021

- Created **Front-End** focused Web Application for cold chain application for DENSO
- Consumed REST API in **React.js** using State Management (Redux Middleware)
- Worked on JavaScript Framework (Google Earth Engine) for geographical data analysis purpose.
- Proactively track and resolve bugs, initiated Test-Driven Development by writing tests in Jest.
- Reviewed the quality of code resulting in code readability increase and performance improvements.
- Involved in requirements gathering, analysis, design, and documentation of the application.

**Environment:** ReactJs, RestAPI, Thunk, HTML, CSS, TypeScript, Webpack, Jest, Material UI, NPM, Visual Studio Code.

**United Services Automobile Association (USAA) for TATA Consultancy Services**  
System Engineer

Chennai, India  
Jan 2019– Dec 2020

- Designed reusable user interface in **ReactJS** and JavaScript ES6 and managed application state using **Redux-Thunk**.
- Created the self-service channels using **Redux Form** to report the insurance claims and save data to backend api
- Enhancement of timeline application to show Client details and integration of Rest API to upload Image /Chatbot assist.
- Build the new application to automate insurance transactions using with **ReactJS** and integrated with Blockchain API.
- Worked in **Agile** methodology by briefing in scrum calls, suggesting story tasks, and approximating efforts.
- Assessing project requirements using Agile & Scrum principles that helped prioritize activities and reduce ad hoc work requests by 35%.

**Environment:** ReactJs, Redux-Thunk, JavaScript, REST APIs, Agile, Git

**Citi Private Bank for TATA Consultancy Services**  
Assistant System Engineer

Chennai, India  
Jan 2017 – Dec 2018

- Developed the **COBOL-DB2** applications for Batch Processing to downstream application for analysis in ETL and kafka systems
- Build SOAP webservices to create Modern Web application using React.js and Google cloud platform
- Developed File handling programs using **COBOL** and **JCL**.
- Analyzing large volume of data with **SQL queries** for Intraday batch jobs and archiving the database.
- Preparing the Unit Test Reports (UTR), closing defects in SIT / UAT environment and code reviewing.
- Analyzing the Module impact and creating the **high level and low-level design** documents

**Environment:** COBOL, IBM DB2, JCL, HP-QC, Changeman, Spufi, file Aid, ServiceNow

## ACADEMIC EXPERIENCE

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**Lane Keeping Assistance using End to End Machine Learning (Master Thesis)**

Aug 2022-present

- Data acquisition using CARLA simulation using Python API
- Development of Convolutional Neural Network architecture to detect lane features and steering angle
- Train and test the neural network to achieve the desired goal of implementing LKAS feature autonomously

**Python Backend Development for Vehicle Fleet Management**

July -Aug 2022

- Refactoring the Components given UML diagram using factory method.
- Unit testing the codes for proper functionality after refactoring.
- Add new features following test driven development methodology and create the software architecture.

## LANGUAGE SKILLS

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- Tamil | Native
- English | Fluent
- German. | A1
- Hungarian | A1