

Shravan Kumar B

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📝 <https://medium.com/@zhravan> 📄 <https://stackoverflow.com/users/11899809/zhravan> 🛠 <https://dev.to/zhravan>
🏆 <https://www.hackerrank.com/imshravan> 🌐 <https://codepen.io/zhravan> 🔗 ohmyscript.com
💬 https://discord.com/users/shravan20_ 🐦 <https://twitter.com/zhravan> ☎ 9686660425 🏠 <https://gitlab.com/zhravan>

📄 Summary

Creative Software Developer with 6 years of experience in Software Development. Proficient in JavaScript, Java, Python, and related frameworks & libraries. Well-versed in Backend Engineering and ample experience in Frontend Engineering with the willingness to learn and master new evolving technologies. Complimenting my technical background; I am in the 4th semester of my Master's degree in Data Science, a pursuit that continues to refine my analytical skills.

🏢 Work Experience

Freelance

Sep 2024 – Jul 2025

Contractual SDE

- Designed and developed a routing optimization tool from scratch, delivering custom solutions to address client-specific requirements.
- Architected microservices and transitioned the application infrastructure from bare-metal instances to a Kubernetes-based setup.
- Implemented asynchronous processes using Kafka, including Dead Letter Queue (DLQ) setups and alert systems for enhanced reliability.
- Migrated a Parse Server application to an Express.js-based architecture.
- Developed routing algorithms leveraging the FastAPI framework and translated white papers into production-ready systems, includes genetic algorithm implementations.
- Revamped database designs and optimized API response times, achieving significant improvements in overall Turnaround Time.
- Integrated Prometheus metrics for consumer lag, processing latency, and error rates; built Grafana dashboards and alert rules to detect slowdowns or consumer omission in real time
- Developed a multi-threaded execution framework to evaluate diverse neighborhood moves in parallel, resulting in a 2× speedup on multi-core machines and enabling real-time re-optimization.
- Built a benchmarking suite to compare algorithm variants on datasets ranging from 50 to 1,000 stops; scaled the solver to handle up to 5,000 nodes via incremental clustering and route seeding strategies.

Jan 2024 – May 2024

SDE

- Migrated legacy jQuery UI modules to modern React-based applications, enhancing performance and maintainability.
- Revamped the DB design and enhance API execution time by 82% and optimized communication pathways
- Redesigned application architecture, transitioning from monolithic structures to microservices, improving scalability and reliability.
- Collaborated with multiple clients, independently managing project timelines and deliverables.

Locus - Logistics Optimization & Decision-making Platform

Jan 2023 – Oct 2023

SDE - 2

- Improvised the cache mechanism system for a specific step in the Route Optimization algorithm
- Architecting and designing complex backend systems to handle business requirements ensuring scalability.
- Benchmarking different solution providers with existing system and identifying the bottlenecks in the current system.
- Mentoring the backend engineers to deliver high-quality solutions on time and with a quality budget.
- Achieved a 30% reduction in the number of calls made to the Google Maps Distance Matrix in various product workflows.

Oct 2021 – Dec 2022

SDE - 1

- Analyzing, designing, and developing algorithms and data structures for solving route optimization problems.
- Building custom and tailor-made solutions for customers to solve and close gaps in the last-mile domain.
- Optimized system performance, identified & resolved bottlenecks, and ensured the system met non-functional requirements such as scalability & availability to provide a reliable route optimization platform.
- Maneuvered in-depth analysis of the cost factor spent on the resource, initiated and contributed towards the cost-cutting activities.
- Majorly worked on Spring-based Framework for Product Development and Python & JavaScript for other related works.

Nineleaps Technology Solutions Pvt Ltd

Apr 2021 – Oct 2021

MTS - III

- Use Java/J2EE technologies to develop back-end applications.
- Revamp various Java application developed with Spring Boot, Hibernate.
- Play pivotal role as an part of the team, developing new services using Spring Boot framework.
- Performed unit testing of applications by developing and applying test cases in JUnit framework.
- Enhanced the quality of code and improved application's standards.
- Develop database and technical designs for application development.
- Drive best practice, quality and consistency within design and development phases.

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| Feb 2020 – Mar 2021 | MTS II <ul style="list-style-type: none"> • Designing and writing Unit Tests for the Backend Application, achieving 100% code coverage. • Developed log system for the Node.js Application • Dealt with enhancing the code quality and maintaining the best practices in the project. • Containerizing the application and deploying it on AWS EC2. • Integration of Moodle Application and Node.js Application. • Recording and maintaining User Guide Documentation to use Moodle Application and other use cases, along with Technical Documentation of setting up Moodle, and integrating it with React.js and Node.js • Seamless sign-in with Node.js and React with Moodle. • Conforming to the non-functional requirements (NFRs) as per the client standards i.e. Technical debt, Complexity, Code Coverage, Code Duplication & Issues. • Responsible for documentation of Test Cases, Bugs Reports for the backend. |
| Jul 2019 – Feb 2020 | Graduate Engineering Intern <ul style="list-style-type: none"> • Majorly designed and managed backend application • Responsible for Database Designing • Integration with Firebase Notification • Develop database and User Interface designs for application development. • Use JavaScript technologies to develop front-end and back-end applications. • Conforming to the non-functional requirements (NFRs) as per the client standards i.e. Technical debt, Complexity, Code Coverage, Code Duplication & Issues. • Designed Web Components and pages using React.js |
| Jul 2018 – Aug 2018 | Sookshma Chetas Softwares Pvt. Ltd., Student Intern <ul style="list-style-type: none"> • Designing UI templates using Bootstrap UI library and AngularJS • Integrated Newsletter Service • Managed the role of User Interface designer and back-end Node.js Developer |

Education

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| 2023 – present | Master of Science in Data Science, Manipal Academy of Higher Education |
| 2015 – 2019 | Bachelor of Engineering in Computer Science and Engineering, Rajarajeswari College of Engineering |
| 2013 – 2015 | Higher Secondary Course, Kendriya Vidyalaya |
| 2003 – 2013 | Matriculation, Kendriya Vidyalaya |

Skills

Java • Spring • Spring Boot • JavaScript • Nodejs • Expressjs • Reactjs • Python • Flask • PHP • SQL — MySQL, PostgreSQL • NoSQL — MongoDB • HTML, CSS • Microservices • Version Control (Git) • Backend Engineering • Internet of Things • Technical Writing & Content Writing • Moodle Web Services

Awards

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| Jan 2022 | The High Flyer, Locus - Logistics Optimization & Decision-making Platform |
| Jun 2021 | Feather On The Hat, Nineleaps Technology Solutions Pvt Ltd |
| Jan 2021 | The Rising Star Award, Nineleaps Technology Solutions Pvt Ltd |
| May 2020 | Most Innovative Idea, Nineleaps Technology Solution Pvt Ltd |
| May 2019 | The Best Project - Project Expo 2019, RajaRajeswari College Of Engineering |
| Aug 2018 | The Best Project, ExpertsHub |

Open Source Projects

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| May 2025 – Present | Nixopus, Core Contributor ↗ A platform designed to simplify VPS management, built in FOSS |
| Aug 2023 – present | utilite, Owner ↗ A robust utility library designed to facilitate clean and efficient JavaScript coding practices. This library provides a wide range of functions and tools to streamline JavaScript development, promote code cleanliness, and enhance code readability and maintainability |
| Jul 2023 – Feb 2024 | Sharkio, Core Contributor ↗ Sharkio is an API proxy for your development environments. It records all the requests that are sent to your API. It allows you to replay the requests easily. Stepped down as the team planned to move out of FOSS. |
| Oct 2020 – Present | Github Readme Quotes, Owner Dynamic quote generator for your GitHub readmes to give a poetic touch to readmes |
| Mar 2021 – May 2021 | Custom Input Types, Core Collaborator Custom input types allow you to employ tailored input formats without the need for manual JavaScript coding. |

Projects

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|--------------------|--|
| Feb 2025 – present | JSONp - JSONpreviewer ↗ Engineered a multi-tab interface supporting raw and collapsible tree views, enabling efficient formatting, visualization, and real-time error handling, along with side-by-side diff tool, cross-language code generation. |
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Mar 2025 – Present

Gitalytics

Gitalytics is an instant insights into repository health, community engagement, and development activity.

Feb 2025 – Feb 2025

Rsvp2Go

Lightweight, self-hosted RSVP system built on Cloudflare Workers. It allows users to easily create events, generate unique RSVP links, and collect responses securely using Cloudflare KV

Jun 2024 – Jun 2024

Business Forecasting using Linear Regression

Developed a business forecasting model using linear regression in R, along with data visualization and manipulation to analyze sales, customer behavior, and revenue generation across countries/continents, with a focus on model diagnostics, and uncovering actionable customer purchase insights through EDA.

Feb 2023 – May 2023

Automating Product Photography using Generative AI

UI-based automation of product photography that would automate and replace product photography, using existing open-source technology such as Stable Diffusion and Mid Journey.

Mar 2021 – May 2021

Custom Input Types

Custom input types lets you use customised input types without writing any javascript for yourself as native HTML input tag. This is available as a NPM package.

Nov 2020 – Present

GitHub Readme Quotes

An Open-Source Project, GitHub Dynamic Quote Generator simply allows you to add an image link in the markdown (README.md) and it will view you a dynamic quote for every user visiting your GitHub account.

Nov 2018 – May 2019

Autonomous Garbage Collecting System using Internet of Things

The project aimed at designing a Garbage Collection System using a Robot in the Indoors based on Indoor Positioning System using Internet of Things. A smart bin was deployed which would notify the Collector Robot to collect the garbage as and when it was filled.

Oct 2018 – Nov 2018

Internal E Banking Website

This was an Internal E Banking System project is a web application where you can transfer money to other users and can have a close watch on all your transactions. Application was built using Bootstrap Library for the front-end, PHP for Backend and MySQL as the database.

Jul 2018 – Aug 2018

Online Food Portal Website

This Web Development project was completed to fulfill the requirement of the internship. The project was done using Bootstrap UI library, AngularJS and jQuery for front end design and using Express Framework for backend and MongoDB as database. (MEAN Stack)

Jul 2018 – Aug 2018

Smart Garbage Van Tracking and Alert System using IoT

The project was completed using Raspberry Pi platform, and a MIT android application was created to notify the truck driver about the location of the Dustbin which is filled with amount of Garbage filled.

Sep 2017 – Nov 2017

Zoo Management Information System

The DBMS project for academic purpose was completed using Bootstrap as front end technology and PHP as backend technology with MySQL as database. This project used open-source cross-platform web server solution stack package tool namely XAMPP.

Sep 2017 – Oct 2017

Obstacle Detection and Avoidance Robot

Mini project on Embedded Systems for RRCE - CSE Dept Level Project Expo, exhibiting an Obstacle Detection and Avoidance Robot using Arduino Uno and Ultrasonic Sensors.

Publications

May 2019

Autonomous Garbage Collection System using Internet of Things,

International Journal of Science and Innovative Engineering & Technology (IJSIET)

Published a journal for the academia project as 1st Author for the project "Autonomous Garbage Collection System using Internet of Things".

Organizations

Nov 2023 – present

AnitaB.org, *Mentor* 


Apr 2021 – present

Coding CoachCoding, *Mentor*

Jun 2020 – present

Just A Drop, *Founder & Admin* 

Sep 2021 – Oct 2021

AnitaB.org, *OS Mentor* 

Courses

Jun 2021

Unit Testing in Java & Spring Boot, *Pluralsight*

- **Course Duration:** 7 hours

Feb 2021

Automate the Boring Stuff with Python Programming, *Udemy* 

- **Course Duration:** 7 hours

Dec 2020

M001: MongoDB Basics, *mongoDB University* 

- **Course Duration:** 8 hours 30 mins
- **Course Grading:** 94%

Sep 2020

Advance your Node.js Skills, *LinkedIn Learning* 

- **Credential ID:** Ad8kK5QGFaHFWKB-p5_77jEa50rw
- **Course Duration:** 17 hours 16 mins

Mar 2020

Become a Node.js Developer, *LinkedIn Learning* 

- **Credential ID:** AZDouI-qkAktXCbRliYS6soTuup4
- **Course Duration:** 22 hours 30 mins

Declaration

I sincerely proclaim that all the facts in my resume are accurate, and I am responsible for their accuracy.



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