

# Kishore Shiva Saravanan

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## WORK EXPERIENCE

### KPRMT Global Solutions

AUG 2024 – Dec 2024 (5 months)

#### Software Engineer Intern (Full Stack Applications)

- Designing and developing scalable **Full Stack Application** using **Angular**, **NodeJS** and **DynamoDB**, significantly improving application response time by **20%** and successfully handling over 1000+ daily active users.
- Implementing cloud-based solutions in **AWS** and effectively managing cloud infrastructure with **AWS Amplify** for Frontend and **API-Gateway** with **AWS Lambda** for Backend Functions with **99%** uptime efficiency.
- Analyzing and developing highly efficient solutions for various use cases, achieving a **35%** reduction in **processing** time, **optimizing** resource usage across multiple platforms, and enhancing overall performance.
- Conducting comprehensive code reviews, rigorous **testing**, and detailed **debugging**, reducing bug incidents by **40%** and ensuring **99.9%** software reliability, stability, and seamless user experience.

### ZOHO CORPORATION

JAN 2023 – JUN 2023 (6 months)

#### Software Engineer Co-op (Zoho Maps)

- Collaborated with the **Artificial Intelligence** team on **Large Data Models** with **10 million+** Geospatial information for maps used for routing data Predictions using **Machine Learning** and Artificial Intelligence Algorithms & **Data Analysis** in context of **Satellite Image Processing**.
- Created core location-based **SDK** for **Android & iOS Mobile Platforms**, integrating **Geocoding**, **Geofencing**, automated notification functionalities with **native Android systems**. Successfully **deployed** on **Google Play**.
- Worked with the **Back-end** server team, developing **REST API** for integrating the created Android Location **SDK** feature. Handled **server authentication** use cases with **SHA-256** encryption standards as **tokens**.
- Managed substantial **geospatial datasets** and implemented **map routing** with **POST GIS** in Zoho Maps. Optimized shortest path calculations in **PostgreSQL**, improving routing efficiency by **40%**.

### INDIE SPIRIT TECHNOLOGIES

JUL 2021 – DEC 2022 (17 months)

#### Software Engineer Co-op (Full Stack Applications)

- Collaborated with a team of 6 Software Developers and 2 UI/UX designers, ensuring timely project **delivery** and successful **deployments**. Spearheaded **strategic planning** initiatives, to achieve project outcomes.
- Led a team of developers in creating a **Full-Stack** application in the **MEAN** stack, implementing server methodologies, **authentication**, and **REST APIs**, reducing costs by **20%** and boosting performance by **35%**.
- Built and Launched a backend server using **NodeJS** and **MongoDB** on **AWS Elastic Beanstalk** with a **Load Balancer**. Containerized with **Docker**, achieving a **99.9%** uptime and handling **10,000+** requests per second.
- Integrated **blockchain**-based payment methodology with **Payment Gateway** integration, encrypting user data with crypto-based security on a secured **HTTPS** server, reducing fraud incidents by **60%**.

## EDUCATION

### ILLINOIS INSTITUTE OF TECHNOLOGY (GPA: 3.8/4.0)

Chicago, IL

Master of Science (MS): Information Technology & Management, Software Development

Aug 2023 - May 2025

### ST. JOSEPH'S INSTITUTE OF TECHNOLOGY (GPA: 8.9/10.0)

Chennai, TN

Bachelor of Engineering (B.E): Computer Science & Engineering

Jun 2019 - Apr 2023

## SKILLS

**Programming Languages:** Java, Python, C/C++, JavaScript, Swift, Typescript, Dart, Kotlin, SQL, PL-SQL, PHP.

**Full Stack Application & Mobile Development:** Angular, React, NodeJS, MongoDB, Android & iOS, Flutter, XCode, SwiftUI, Docker, REST API, Sockets, Blockchain, Oracle Databases, Google Cloud Platform, Github, Ionic with Angular.

**Cloud/Dev-Ops:** AWS - S3, DynamoDB, Lambda, EC2, API Gateway, Elastic Search, Amplify, Elastic BeanStalk, Application Load Balancer, Cloud Development Toolkit (CDK), GCP/Firebase - Hosting, Cloud Run, Database, Authentication.

**Core:** Object Oriented Programming & Analysis, Relational Database Management Systems, Data Structures, Design Patterns, Linux/UNIX/Windows commands, OS & Systems Troubleshooting, Server Authentication & Security

**Management:** Agile Methodologies, Communication & Management in IT Architecture and Standards, Broad Meeting Management, Project Planning, Microsoft Projects.