

HARSHA VIPPALA

[Email](#) | [Github](#) | [LinkedIn](#)

SUMMARY

Software engineer with 5 years of experience, specialized in back-end application development. Experienced in all phases of the SDLC, with a focus on process improvement and agile methodologies. Skilled in back-end frameworks such as NestJS and Spring, as well as front-end technologies like ReactJS and Next.js. Deep understanding of object-oriented programming concepts, principles and microservices architecture. Proven ability to develop and deliver high-quality, scalable, and secure software solutions. Expertise in API development using RESTful, GraphQL, and gRPC as well as testing frameworks like Cypress.io, JUnit and Jest. Experience with AWS services such as S3, RDS, and IAM using them to build and maintain scalable and secure cloud-based applications.

CORE SKILLS

Programming Languages: JavaScript, Java, TypeScript, Python, Ruby
Frameworks: NestJS, React, Spring, Next.js, GraphQL, gRPC, Cypress.io, Jest, mockito
Databases: SQL, Redshift, MongoDB, Postgres, DynamoDB
Tools: Postman, Docker, Git, Kubernetes, Grafana, Kibana, Bamboo
Software Development: Agile, TDD, BDD
Cloud Platforms: AWS (S3, RDS, IAM)

WORK EXPERIENCE

Senior Software Engineer | *Liberty Mutual Insurance* | Boston, MA | February 2023 - Present

- Developed and maintained APIs built on NestJS that facilitate seamless integration with third-party insurance vendors Zebra and Insurify. Additionally, designed and implemented a reporting API that utilizes AWS Redshift data warehouse to fetch records and generate on-demand sales reports, significantly streamlining manual workflows and enhancing efficiency for sales teams & helping business teams with real-time insights.
- Leveraged GraphQL and gRPC to build and maintain APIs, ensuring seamless integration with third-party systems. Collaborated effectively with external vendor teams, demonstrating strong communication and teamwork skills to bridge technical requirements and achieve streamlined microservices integration.
- Managed and monitored production systems to ensure availability and performance, proactively identifying and resolving potential issues providing timely and effective solutions to minimize customer impact.
- Led a team of interns in implementing a product availability manager service using AWS lambda enabling existing services and web client to control product quoting. Additionally, supervised the entire redesign of the user account page on the website.

Software Engineer | *Liberty Mutual Insurance* | Boston, MA | September 2021 - February 2023

- Worked in the quoting domain, responsible for providing quotes for different insurance products to all customers visiting the website, handling an average of 87,000 monthly visits.
- Implemented a user data tracking feature, capturing interactions of users in the quote flow. This valuable data empowered the business team to accurately identify customer behavior, thus enabling data-driven decisions about product development and targeted marketing campaigns. Consequently, this approach was a major factor for a 7% increase in conversion rates.
- Regularly updated client UI with updated mock designs and components, enhancing the user experience as well as maintaining robust e2e testing with Cypress.io and Jest for unit testing.

Software Engineer | *American Express* | Hyderabad, India | February 2017 - May 2019

- Worked on Amex's representative-facing interface using custom Amex React library Albus, integrating it with the backend using Spring to ensure seamless operations and providing a simplified UX for Amex's representatives.
- Integrated state management with Redux for efficient data handling. Implemented real-time data synchronization using WebSockets for improved customer service responsiveness.
- Designed and implemented RESTful APIs using Spring MVC and Spring Boot. Implemented unit testing using JUnit and integration testing using Spring Boot Test. Used Spring Data JPA to access and manage data in a MySQL DB.

EDUCATION

New York University, New York, NY

May 2021

- Master of Science in Computer Engineering

KL University, India

Dec 2017

- Bachelors in Computer Science Engineering