# Raj Kumar Chellappan

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## SUMMARY

Over 5 years of experience in software development, building Java/ J2EE RESTful Spring boot microservice and NodeJS APIs for the client facing Web Apps (Angular and React), while managing full application deployment life cycle.

## TECHNICAL SKILLS

- **Languages**: JavaScript (ES6), Typescript, Java
- **Architecture**: Microservice, MVC
- **Software Methodologies**: Agile (Scrum)
- **AWS**: EC2, S3, VPC, ECS, RDS, DynamoDB, Lambda, CloudWatch.
- **Libraries**: Kafka, React
- **DevOps**: Docker, Kubernetes
- **Databases**: MongoDB, SQL, PostgreSQL

- **APIs**: RESTful, SOAP
- **Frameworks**: Angular 14, Spring Boot
- **Testing Tools**: Chai, Mocha, JMeter
- **Tools**: SQL Developer, IBM Supply Chain Intelligence Suite, IBM Transparent Supply
- **CI/CD**: JIRA, Jenkins, GitHub Actions
- **Version Control**: Git, GitHub
- **IDEs**: Eclipse, VS Code, IntelliJ

## PROFESSIONAL EXPERIENCE

**Senior Full Stack Developer**                                   Jan 2023 - Aug 2023

*Psystem, Canada*

- Deployed mobile app on AWS, enhancing availability across regions and availability zones while implementing auto-scaling groups for traffic management, alongside a scalable Document DB with cross-region read replicas.
- Collaborated with a team of developers to implement notification feature using Google Messaging Services for a React PWA application, resulting in an increase in user engagement.
- Made a significant impact on the performance of React app by utilizing Redux state management, resulting in a 18% improvement in load times and an optimized user experience.

**IT Consultant**                                                 July 2022 - Dec 2022

*Bloomington Group, Canada*

- Led code reviews for 40+ pull requests, ensuring adherence to coding standards and resulting in a 15% increase in overall code quality for Node express microservices.
- Created automated deployment of Node microservices on AWS with AWS Step Functions, AWS Code Pipeline along with creating multistage deployment (test, dev, prod).
- Played a key role in technical design discussions, resulting in the successful implementation of a containerized Node express microservices architecture that reduced API response latency to < 800ms on average.

**Software Engineer**                                                                                               Nov 2020 - March 2022

*Ernst and Young, India*

- Enhanced error management through the implementation of retry logic and dead letter queues for Kafka, and improved error monitoring by integrating with AWS CloudWatch Alarms (resulting in a decrease in the number of errors per month by 13%)
- Developed and launched an energy bill testing micro-service web application using Spring Boot, Angular 7, HTML5, CSS and Kafka, and designed data visualization dashboards using Chart.js for improved insights.
- Streamlined the product publishing process in the Java client of the Commerce Tool through custom solutions, resulting in a 55% reduction in time to publish multiple products for an e-commerce application.

**Associate Software Engineer**                                                                                          June 2019 - Oct 2020

*Zilker, India*

- Designed and maintained a blockchain application to manage testing devices, enabling employees to easily request, return, and access information on devices using NestJs, React and IBM Hyperledger Fabric.
- Worked on one of the first commercial implementation of IBM Hyperledger Fabric blockchain framework for an insurance client by creating and optimizing smart contracts and web microservice APIs using NodeJS.
- Optimized IBM Hyperledger API performance by 34% through the implementation of indexing in the Postgres database while working on the blockchain team.

**Software Engineer Intern**                                                                                             Aug 2018 - May 2019

*Zilker, India*

- Participated in the development of a Java Spring Boot application for "Jenkins Automation Chatbot" using a modular MVC framework architecture and ReactJS.
- Spearheaded the development of an in-house examination portal using Angular and NodeJS, taking responsibility for both the front-end and back-end architecture.

## EDUCATION

**Business Data Analytics, Master of Management**                                                                 May 2022 - August 2023

*University of Windsor, Ontario, Canada*

**Bachelor of Engineering (Computer Science)**                                                                          April 2015 - 2019

*Velammal College of Engineering*

## ACHIEVEMENTS

- Received **EY Spot Appreciate** because of optimizing the "product publish" feature in the Java client of Commerce Tool with a custom solution which reduced the overall time taken to publish multiple products by almost 55%.
- Held dual leadership roles as Vice-President and Technical Head of a student club at the University of Windsor, overseeing the development and upkeep of the club's website while also coordinating successful coding competitions and hackathons getting us the most engaging club of the year award.
- Served as the overall student coordinator for CZENIA 2018, a national-level technical symposium involving competitions and workshops during my bachelors' program.

**RECOMMENDATION FROM PREVIOUS EMPLOYER:**

**Andrew Hartman**
Founder @ PSYSTEM, Project Leader @ USask, + Evaluator. (They/Them)
August 22, 2023
https://www.linkedin.com/in/andrew-hartman-sk/

I highly recommend Raj to all employers hiring software developers. I guarantee that hiring Raj is a decision you will be glad you did. Raj is a highly competent and passionate developer who clearly has a love for coding. Raj works extremely well with other employees as a collaborator and mentor to upcoming developers. He is an exceptional team member and someone I have greatly appreciated working alongside at my company.

Over Raj's time with us, he has taken the initiative in improving our backend code, suggested product upgrades to improve our user experience, and implemented many new app features. Because of Raj's skill and expertise, we were able to accelerate significant feature developments that were scheduled for next year into this past summer. Where others might be frustrated by problems or issues, Raj is inspired and tackles problem-solving head-on, whether that is exploring how to tackle new developments or investigating app bugs.

An example of Raj's character is on the first day of his orientation to all new employees after a large hiring wave, we had issues with the deployment of our app, which was required for an onboarding activity at the end of the day. We asked if any of the new developers were interested in investigating and solving the issue. Raj volunteered to take a look and spent his lunch and afternoon break examining the issue and, in the end, was successful.

I have done many successful things in growing my company and can easily say that deciding to hire Raj is at the top of that list. Companies that bring Raj on to their team will be better off for it.

(Recommendation provided at LinkedIn)