

# Vignesh Kumar S

Software Developer | [LinkedIn](#) | [GitHub](#)

Email : [svigneshk.23@gmail.com](mailto:svigneshk.23@gmail.com)

Mobile : 9791463201

## Work Experience

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### IBM, Chief Information Office

*Aug 2022 - Present*

*Software Developer*

- Designed and Developed Executive Compensation Applications(IBM Executive Compensation, IBM Equity Generator & Acquisitions) web applications using SpringBoot Microservices(RESTful APIs), IBM DB2(SQL based), Angular v16 and on ReactJS in an Agile Environment.
- Optimized the existing web application architecture by using Async API calls, SQL Query Optimization, Minimal POJOs which resulted in better user experience and also the performance increased by 30% which was validated by Performance Tests, Stress Tests, Load Tests using Apache JMeter.
- Successfully onboarded the application to CIO CI/CD pipeline, where the application was containerized( RedHat Openshift Containers), and deployed to the cloud in Openshift clusters.
- Worked on a side project(as part of Jumpstart Program), 'Automated Microservices' which proactively tunes the parameters(like Memory, CPU, Instances) along with a feedback mechanism to improve its decisions.
- Effectively collaborated with diverse cross-functional teams and various stakeholders throughout the development process to ensure that the application met all functional and non-functional requirements, while aligning with business objectives and delivering high-quality results.

### IBM, Chief Information Office

*Jan 2022 - July 2022*

*Software Developer Intern*

- Designed and Developed a PoC on a salary hike workflow(Approvals, Mail Notifications) which also generates the payslips for employees post the required approvals. Was designed using Figma, IBM DB2(SQL based), SpringBoot Microservices, Angular v16, Apache FOP, XML XSLT were used for the development.

## Projects

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**Splitwise 2.0** | *ReactJS, NodeJS, Express, MongoDB, WebSockets(Socket-IO), Redis Pub/Sub Queue, RabbitMQ*

- Designed and Engineered a highly scalable, responsive web application using ReactJS for frontend and Node Express for Server Side Operations and used MongoDB(NoSQL Database) to store.
- Integrated WebSockets to enable real-time updates on the client side, ensuring users receive live transaction updates without requiring manual refreshes or user intervention.
- Redis Pub/Sub Queue was employed to facilitate efficient and asynchronous communication between different backend instances, enhancing the application's scalability and reliability.
- Leveraged RabbitMQ as a Task Queue to offload and manage intensive backend tasks such as Group Summary Calculations, Settle Transaction Calculation, etc, thereby improving the overall performance and responsiveness of the application.

## Achievements

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- **Client Success Partner Award 1Q '24** - Was recognized for my work on delivering the application on the right time and also with zero major incidents. Cash Prize of \$2000 was awarded.
- **Jumpstart Project Presentation 3rd Prize** - As a part of the Jumpstart Program, among the 8 teams in a cohort, our PoC was recognized.

## Technical Skills

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Java, SpringBoot, Javascript, Angular, React, SQL, Typescript, NodeJS, Express, HTML, CSS, IBM DB2, MongoDB, Docker, Kubernetes, JMeter, Selenium

## Education

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**Amrita Vishwa Vidyapeetham**

*Bachelor's in Computer Science Engineering(CGPA - 8.91)*

**June 2018 - May 2022**

*Coimbatore , Tamil Nadu*