

# KAPIL KUMAR

Engineering scalable systems with clarity, precision, and thoughtful design.

## Senior Software Engineer

Systems Architect • Full-Stack Developer • DevOps Engineer

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🔗 [LinkedIn Profile](#) | 🌐 [Web Portfolio](#)



## SUMMARY

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Senior Full-Stack Engineer with 14+ years of experience architecting & delivering enterprise-grade applications across fintech, media, & entertainment industries. My background spans system architecture, full-stack development, DevOps, & UI/UX implementation - giving me a balanced perspective on how reliable software is planned, built, deployed, & experienced. I bring hands-on depth across backend microservices, frontend engineering, cloud infrastructure, and emerging AI/automation patterns, with a consistent focus on scalability, code quality, and long-term system sustainability.

I continue to invest in learning modern technologies and design principles so I can contribute effectively, recommend meaningful improvements, and support teams in building solutions that combine technical strength with seamless user experience.

## TECHNOLOGY STACK

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**Languages:** Java, TypeScript, JavaScript, Python, Kotlin, Node.js

**Frontend & UI:** ReactJS, Next.js, HTML5, CSS3, Webix, Ext-JS

**Backend & Frameworks:** Spring Boot, NestJS, JPA (Hibernate), REST/SOAP APIs, Apache CXF

**Mobile Development:** Android (Kotlin)

**Data & Messaging:** MySQL, MSSQL, PostgreSQL, MongoDB, DynamoDB, Redis, Kafka, ActiveMQ

**AI & Automation:** Retrieval-Augmented Generation (RAG), Vector Databases, Local Embeddings, Event-Driven Orchestration, Secure API Integrations

**DevOps & Cloud:** AWS, Azure, Docker, Jenkins, CircleCI, SonarQube, Git

**Testing:** JUnit, Mockito, Mocha

## WORK EXPERIENCE

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### SENIOR SOFTWARE DEVELOPER

**IMAX Corp.**

*Aug 2017 – Dec 2025*

*Toronto, ON, Canada*

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#### Key responsibilities:

- Led the architecture and development of multiple enterprise-level services and applications, ensuring scalability, performance, and alignment with business goals.
- Spearheaded a strategic initiative to train an on-premises offline AI model, enabling IMAX to automate workflows including ticket creation, log analysis, and proactive incident alerting.
- Apply industry-standard practices throughout the design, development, and testing lifecycle
- Collaborate with end users to translate functional requirements into well-defined technical solutions.
- Guide and support junior developers and new recruits through each stage of the SDLC - from analysis and implementation to testing, deployment, and post-release optimization.
- Actively participate in resolving complex technical issues and improving existing systems with a focus on long-term stability and performance.

#### Technical Highlights:

- Architected and developed microservices and core components supporting multiple cross-functional teams across the organization.
- Built a centralized integration hub to streamline and automate data exchange between enterprise systems and external partners.
- Engineered a secure portal for IMAX users & film studios to request, generate, and deliver encryption keys required for global theater operations.  
Studios currently integrated with IMAX using this portal: Disney, WB and SONY
- Designed and deployed an on-premises AI model leveraging RAG, local embeddings, and secure data indexing to interpret internal systems and trigger automated actions.
- Architected AWS cloud infrastructure supporting the platform - EC2 for scalable service hosting, API Gateway for managed API routing and traffic control with IAM enforcing authentication and access policies across services, SQS and SNS for event-driven messaging and proactive alert delivery, and Lambda for serverless automation workflows.
- Enforced quality gates via unit testing, SonarQube code scans, and peer code reviews.
- Technologies: Java, Spring Boot, JPA, Node.js, TypeScript, React, REST/SOAP APIs, Active MQ, Kafka, JUnit, Mockito, Mocha, MySQL, PostgreSQL, JavaScript, HTML, CSS, Redis, AWS, Apache CXF.

#### Accomplishments:

- Designed and Developed company critical application to record all the information of IMAX theaters and provide decryption keys based on different projector/audio/server types on site required to play movies.
- Automated data-exchange between multiple apps using Queues and Events
- Built Gateways between different Studios and IMAX to facilitate automation of decryption key generation for playback of Studio Content

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#### SENIOR SERVER DEVELOPER

*Jun 2016 – Jul 2017*

#### Quickplay Media

*Toronto, ON, Canada*

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#### Key responsibilities:

- Design & develop new product features to improve functionality, enhance security, & ensure scalability across multiple services. Collaborated with product & QA teams to deliver stable, high-performance releases.
- Identify and resolve performance bottlenecks, optimizing application speed and resource usage through efficient refactoring and tuning.
- Build new modules from scratch for enterprise clients, emphasizing modular design and easy maintainability.
- Contribute to technical solution design and system architecture applying best coding practices, modular programming principles and automation.
- Maintain strong focus on testing and CI to ensure stability and minimize production issues.

#### Technical Highlights:

- Developed and maintained backend components using Java, applying core principles of the language keeping in mind the reusability, reliability and adherence to best coding practices.
- Implemented multi-tier enterprise applications using Java, JPA, Spring Framework and Web Services, ensuring secure, scalable data exchange.
- Provide production support, perform root-cause analysis, & implement preventive fixes to maintain up time.
- Contribute to documentation, peer reviews, and process improvements to enhance overall team efficiency.
- Ensured Unit & Integration tests were always in place, improving code quality & reducing regression risk.
- Technologies: Java, Spring Boot, JPA, Node.js, TypeScript, REST APIs, Active MQ, JUnit, Mockito, MySQL, MongoDB, Azure, JavaScript, HTML, CSS.

#### Accomplishments:

- Implemented a secure encryption layer for third-party vendors, ensuring safe content delivery and compliance with data-protection standards.
- Developed a universal monitoring and health-check module that was multi-tenant, lightweight, and easily integrable across services for real-time diagnostics.
- Strengthened platform reliability by optimizing database queries and improving asynchronous events handling across distributed systems.

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## FULL STACK DEVELOPER

Hyperwallet Inc. (PayPal)

*Feb 2015 – May 2016*

*Vancouver, BC, Canada*

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### Key responsibilities:

- Develop new features that would make the application better and add value to the user's experience.
- Adding features to the SaaS application based on the client's requirements.
- Making sure that security and speed were always the highest priority before releasing a feature.
- Technical Solution Design and Module Creation
- Implement robust quality assurance and Continuous Integration methodologies to enhance system stability

### Technical Highlights:

- Implement features, enhancements and work on bug fixes for the platform developed in Java with strict adherence to MVC patterns and comprehensive Unit testing
- Implementation of multi-tier applications using J2EE, EJB, JPA, JSF, JSP, Servlets, Web Services etc.
- Production Support – Provide constant support to our clients with any issues they encounter.
- Make use of supporting frameworks like Struts and Eclipse link
- Front-end Design and Development using technologies like JavaScript, HTML-5, CSS-3
- Unit testing components using frameworks like JUnit and Mockito
- Technologies used – Java, J2EE, EJB, JPA (Eclipse link), REST/SOAP Web Services, Mockito, Junit, Kafka, MySQL, JSF, JavaScript, HTML-5, CSS-3, Apache CXF Web-Services

### Accomplishments:

- Worked on one of the most crucial features that was being developed for our new client, Western Union, and received positive feedback and appreciation from the client as well as Hyperwallet.
- Adding a detour to the existing workflow to accommodate the requirements of Western Union
- Pro-actively came up with a few suggestions to improve the application's performance and presented them to the team, which was well received and implemented after a few prototype demonstrations.
- Parallel usage of Structured and Non-Structured DB for faster performance.

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## JAVA DEVELOPER

VFA Inc.

*Mar 2014 – Jan 2015*

*Toronto, ON, Canada*

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### Key responsibilities:

- Develop a new solution from scratch acting as a proxy & preview of all the existing VFA products into one.
- Adding features to existing product line based on the client requirements.
- Technical Solution Design and Framework Creation.
- Understand the domain language and the workflows of the asset industry and align the software solutions in accordance with present requirements and anticipated future requirements.
- Assist onboarding clients with understanding the ecosystem of software solutions available at VFA to facilitate easier navigation around all the services available to them.

### Technical Highlights:

- Design & develop revised version of the main product (VFA Facility) in Node.js
- Add features to legacy portal developed in Java keeping in mind the reusability, readability & ease of integration with the modern version of the application.
- Implementation of multi-tier architecture using the most advanced versions of technologies for both the legacy and the latest version of the portal.
- Front-end Design and Development using technologies like JavaScript, HTML-5, CSS-3
- Unit testing components using frameworks like JUnit and Mocha

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## **JAVA DEVELOPER**

**Expertsystems Inc.**

*Feb 2012 – Mar 2014*

*Toronto, ON, Canada*

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### **Key responsibilities:**

- Client Coordination - Gather and analyze business and system requirements from end users.
- Building SaaS projects based on the requirements of individual clients.
- Technical Solution Design and Framework Creation.

### **Technical Highlights:**

- Programming in Java – Build solutions that were re-usable and easy to integrate.
- Implementation of multi-tier applications using J2EE, JDBC, JSP, Servlets, Web Services, Beans etc.
- Database development – Setting up database along with designing the architecture.
- Make use of supporting frameworks like Spring and Hibernate
- Front-end Design and Development using technologies like JavaScript, HTML5 and CSS3
- Trace and classify issues and timely resolution of the same, Schedule tracking, Defect Analysis.

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## **JR. JAVA DEVELOPER**

**Expertsystems Inc.**

*Dec 2008 – Aug 2011*

*Pune, India*

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### **Key responsibilities:**

- Learn what similar products on the market offer and design + develop new features based on what was missing from the company CRM.
- Develop new features based on client requirements and fix the bugs.
- Collaborate with clients on a regular basis to understand the most frequently demanded features.
- The website can be accessed at [www.deskera.com](http://www.deskera.com)

### **Accomplishments:**

- Developed a bug reporting system which enabled each member involved with the project to update the progress of the product and report bugs whenever raised directly from their desk.

### **My roles & responsibilities included (Employee management Project):**

- Understand the hierarchy of the organization.
- Decide the permissions for the different members at different levels in the hierarchy.
- Create a system that is user friendly and needs a minimum amount of tutoring.
- Involve each member in understanding and reviewing the system and ask for recommendations for improvement.

Status: **Citizen**

References: **Available on request**