Sandesh Kumar Singh

Associate Architect - Technology Management

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SUMMARY

Enthusiastic and skilled software engineering professional with over 9 years of experience in delivering high-quality software solutions. Proficient in Java, Spring MVC, Spring Boot, Hibernate, MySQL, and modern web technologies. Experienced in system design, TDD, unit testing, and AI/ML integration. Adept at writing efficient code, optimizing system operations, and automating workflows. A passionate, results-driven team player with a long-term goal of becoming a software architect. Committed to enhancing organizational productivity and software quality.

KEY SKILLS

• Java • Spring MVC • Spring Boot • Hibernate • MySQL • XML • HTML5 • CSS •
• jQuery • JavaScript • VueJS • Maven • ReactJS • Android App Development • AngularJS •
• System Design • TDD • Unit Testing • AI/ML •

TECHNICAL SKILLS

Programming Languages: Java, Python, VueJS, ReactJS, AngularJS
Web Design: HTML5, CSS, JavaScript, JSP
Database: My SQL, Oracle
Web/Application Servers: Tomcat, Jetty
Server Tools: Redis, Git, Jenkins

EDUCATION

MS in Computer Science with specialization in AI/ML   Jan '24 - Dec '24

Liverpool John Moores University, England

- **Course modules:**
  - Computing Systems | Research Methodology | Scientific Ethics

PG Diploma in Software Development   Dec '22 - Jan '24

IIIT Bangalore, India

- **Secured GPA 3.8/4**
- **Course modules:**
  - Integration and Testing | SDLC and Agile Methodology | Algorithm Analysis + Recursion
  - Stacks & Queues | Advanced JavaScript | Web development frameworks (React) | DevOps | MVC Architecture

B.Tech. in Computer Science And Engineering   Jun '13 - May '17

IIT Mandi, India

- **Secured GPA 7.96/10**

KEY DEVELOPMENT PROJECTS

- **Project: Customer Acquisition System | Tech Stack: Java, Spring v5, MySQL, AngularJS v1.18, jQuery, JavaScript, HTML, CSS | April '24**
  - Developed a API to run dedupe checks and which helps to reduce loan frauds.
  - Deprecated older libraries to reduce CVE count to 0, to follow RBI guidelines of 0 vulnerabilities.
- **Project: Neutron Framework | Tech Stack: Java, Spring Boot v2.7, MySQL, VueJS v2.7, jQuery, JavaScript, HTML, CSS | Dec '19**
  - Developed a web framework to manage dynamic rendering of UI screens within 4 seconds using server side form configurations.
  - Added features to automatically generate form configuration based on form designer admin panel to support 10 LOBs and 6 modules.
- **Project: E-Apply and E-Serve | Tech Stack: Java, Spring Boot v2.2, MySQL, VueJS v2.2, jQuery, JavaScript, HTML, CSS | Dec '19**
  - Developed a web application to on board customers and push 16 different type of loan into central system CAS.
  - Developed customer friendly, light weight loan management system, that reduces the customer's trip to banks.
- **Project: Enterprise Content Management | Tech Stack: Java, Spring v5, MySQL, jQuery, JavaScript, HTML, CSS | Sep '16**
  - Developed a framework to perform all the 4 CRUD operations on documents and store them using different configurations
  - Designed the system to perform side by side data capturing flow to facilitate data entry

PROFESSIONAL EXPERIENCE

Associate Architect - Technology Management   Apr '25 - Present

Nucleus Software Exports Ltd.   Noida, IN

Roles and Responsibilities
- **Restructured** API Frameworks in CAS, **enhancing system performance by 10%**.
- **Modified** legacy code written in AngularJS to modern MVVM architecture, **reducing bugs by 40%**.
- Created **LCNC Framework** which facilitated in **reduction of development efforts by 30%**.

Senior Lead - Product Engineering   Apr '22 - Mar '25

Nucleus Software Exports Ltd.   Noida, IN

Roles and Responsibilities
- **Developed** server-side and client-side components, **enhancing system performance by 20%**.
- **Wrote** well-designed, testable, and efficient code using MVC architecture, **reducing bugs by 30%**.
- **Created** website layouts and user interfaces, **improving user experience and engagement by 25%**.
- **Built** a framework from scratch, used in 6 modules, **saving 200+ man-hours monthly**.
- **Led** a team of 4 engineers, **successfully delivering projects ahead of deadlines by 10%**.
- Recognized for fostering collaboration, driving innovation, & **achieving results** across multiple projects within Nucleus Software

Lead - Product Engineering   Apr '20 - Mar '22

Nucleus Software Exports Ltd.   Noida, IN

Roles and Responsibilities
- **Developed** server-side and client-side components, **boosting efficiency by 15%**.
- **Wrote** well-designed, testable, and efficient code using MVC architecture, **improving code reliability by 25%**.
- **Created** website layouts and user interfaces, **leading to a 20% increase in user satisfaction**.
- **Built** a framework from scratch, used in 6 modules, **cutting development time by 18%**.
- **Led** a team of **2 intern engineers** ensuring project completion within deadlines.
- Engaged a **1000+ member audience** at Annual NucTech January 2021 with insights on '**Responsible AI**', covering ethical considerations, regulatory compliance, & bias mitigation

Senior Software Engineer   Oct '17 - Mar '20

Nucleus Software Exports Ltd.   Noida, IN

Roles and Responsibilities
- **Developed** server-side and client-side components, **improving application performance by 15%**.
- **Wrote** well-designed, testable, and efficient code using MVC architecture, **reducing maintenance costs by 10%**.
- **Created** website layouts and user interfaces, **increasing user engagement by 20%**.
- **Managed** responsibilities across multiple projects, **ensuring on-time delivery and quality improvement by 12%**.
- Delivered a talk on '**Image Processing And Its Applications**' at NucTech Club in August 2019, engaging with an audience of 100-200 attendees & receiving positive feedback
- Presented insights on the topic of **'Program Synthesis'** to an audience exceeding **1000+ attendees** at Annual NucTech January 2020, emphasizing the impact of AI on code generation

Software Engineer   Jul '16 - Oct '17

Nucleus Software Exports Ltd.   Noida, IN

Roles and Responsibilities
- **Developed** server-side and client-side components, **contributing to a 20% increase in system stability**.
- **Debugged** software issues and coordinated with multiple teams for issue resolution and documentation, **reducing issue resolution time by 15%**.
- **Assisted** in resolving performance issues, **enhancing overall application speed by 12%**.

ADDITIONAL INFORMATION

- **Languages:** Hindi (Native), English (Professional)
- **Interests:** Programming, Android App Development, AI/ML