Gaurav Raisinghani

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SUMMARY

Results-driven **Senior Software Engineer** with 3+ years of experience in building scalable, high-performance **backend systems**, microservices, and cloud-native applications. Skilled in **Java, Spring Boot, Spring Cloud Gateway, Kafka, and distributed systems**, with strong expertise in both **relational (Oracle, SQL)** and **non-relational (MongoDB, NoSQL)** databases. Experienced in **Agile methodologies**, mentoring teams, and driving performance improvements of up to **30%**. Passionate about designing secure, resilient systems and creating impactful solutions that bridge **technology and business needs**.

EDUCATION

•**Arizona State University** *August 2024 - Dec 2025*

Master of Science - *Computer Science* **CGPA: 3.95/4**

•**SRM Institute of Science and Technology** *June 2017 - May 2021*

Bachelor of Technology - *Computer Science and Engineering* **CGPA: 9.23/10**

TECHNICAL SKILLS AND INTEREST

Programming Languages: Python, Java, C, C++

Frameworks & Tools: Spring Framework, Hibernate ORM, Java Persistence API, Spring Cloud Gateway, JUnit Testing, Google Cloud Platform, Feign, Kafka, Web Services, Git Version Control.

Web Development: HTML, CSS, JavaScript, D3.js, Web Applications, RESTful APIs, API Design and Development, Microservices Architecture,, Web Sockets, Server-Side Rendering, Servlets, JSP.

Databases: SQL(Oracle), NoSQL(MongoDB)

Software Development: Data Structures and Algorithms, Object-Oriented Programming (OOP), Multithreading and Concurrency, Lambdas and Streams, Test-Driven Development, Design Patterns, Java Memory Management, Authentication and Authorization.

Agile Methodologies: Code Review, Code Deployment, Automation Testing, Agile Project Management (Jira, Confluence), Monitoring (Splunk, Kibana, Datadog, PagerDuty)

EXPERIENCE

•**Quinbay** *February 2024 - July 2024*

Senior Software Engineer **Bengaluru, India**

- Led the development and maintenance of **backend services** for **Digital products** and **TMS**, elevating performance and scalability by **30%**.
- Guided and mentored junior developers, promoting best practices in **coding**, **software design**, and **development methodologies**.
- Oversaw **feature development** and setup of new **microservices**, coordinating with **cross-functional teams** to ensure timely and successful delivery.
- Implemented **Agile methodologies** and utilized the **Atlassian suite (Jira, Confluence), Splunk, and Kibana** for effective project management, tracking, and monitoring, minimizing downtime by **25%** .
- Managed **relational (Oracle, SQL)** and **non-relational databases (MongoDB, NoSQL)** to support diverse application requirements and optimize performance.
- Implemented **Spring Cloud Gateway** for **TMS**, enhancing **API traffic management**, **security**, and **system efficiency**. Integrated the gateway to improve **load balancing** and **routing**, ensuring seamless functionality across backend systems.

•**Quinbay** *July 2021 - February 2024*

Software Developer **Bengaluru, India**

- Contributed to **feature development** and setup of new **microservices**, coordinating with **cross-functional teams** to ensure timely and successful delivery.
- Successfully implemented **product schema markup** for **digital products**, improving **search engine visibility** and enhancing **SERP** appearance boosting **click-through rate (CTR)** by **15%**.
- Utilized **server-side rendering** techniques to efficiently generate and serve **structured data** to **Google crawlers**.
- Collaborated with **product** and **marketing** teams to optimize **schema markup** for maximum impact on **search engine rankings and user experience**.
- Incorporated **Splunk** and **Kibana** for real-time insights, enabling **rapid issue resolution** and bringing down **incident response tim**e by **40%**.

•**Quinbay** *January 2021 - July 2021*

Software Developer Intern **Bengaluru, India**

- Developed and maintained microservices using **Spring Boot**, **Feign**, **Kafka**, and **REST templates**.
- Contributed to end-to-end **feature development** and **architecture setup** of **distributed systems**.

•**HCL Technologies Ltd**   *June 2019 - June 2019*
Summer Intern   **Noida, India**
- Successfully integrated **Google Maps API's**, providing advanced **mapping capabilities** and enhancing **user experience**.
- Designed and implemented a **buffer tool** for **spatial analysis**, allowing users to create and analyze buffer zones around geographic features, improving **analytical efficiency by 25%** .
- Collaborated with cross-functional teams to ensure seamless **integration** and **functionality** within the **web application**.

•**Bharath Electronics Limited**   *November 2018 - December 2018*
Intern   **Ghaziabad, India**
- Developed a user-friendly **Human-Machine Interface (HMI)** for **Gas Turbine Generator,** revising **operational efficiency** and **control** and decreasing existing **lag** by **10 %**.

Projects & Publications

•**Interactive Data Visualization with D3.js**   *February 2025 - February 2025*
Arizona State University   **Arizona , USA**
- Developed an **interactive lollipop chart** using **D3.js**, **HTML**, and **CSS**, incorporating smooth **animations** and **responsive design** for improved **user engagement**.
- Leveraged **D3.js data binding** to dynamically map data to **DOM elements**, enabling **real-time updates** and seamless **interactivity**.
- Optimized the visualization for **large datasets** with features like **tooltips**, **zooming**, and **cross-browser compatibility**, ensuring **high performance** and **usability**.

• **Privacy-Preserving Health Insurance Analytics**   *August 2024 - December 2024*
Arizona State University   **Arizona , USA**
- Designed a secure data system where sensitive information stays **encrypted at all times**, even while being processed, using technologies like **OAuth 2.0**, **Kafka**, and **AES-256 encryption**.
- Built smart ways to check and detect **fraud** without ever revealing the actual data, using **homomorphic encryption** and **privacy-focused AI models**.
- Suggested using **federated learning** (training models without moving data) and **blockchain-based logs** to keep a **secure and trackable record** of everything that happens.

•**Spring Cloud Gateway Middleware for TMS**   *February 2024 - July 2024*
Quinbay   **Bangalore , India**
- Designed and managed an efficient **API Gateway** to handle and **route traffic** across microservices.
- Reduced **latency** and improved **response times**, enhancing **user experience** and **system responsiveness**.
- Achieved a **25% improvement** in backend performance through streamlined **request handling** and **traffic optimization**.

•**Rich Results Implementation for Digital Products**   *October 2023 - February 2024*
Quinbay   **Bangalore , India**
- Collaborated with **product** and **marketing teams** to revamp and optimize **schema markup** for SEO performance.
- Increased **click-through rate (CTR) by 15%** and improved **search rankings by 30%** through targeted schema enhancements.
- Implemented **server-side rendering** to deliver structured data efficiently, reducing **load times by 20%** and improving **user engagement**.

•**Parkinson Patient Device**   *July 2021 - March 2021*
SRM Institute of Science and Technology   **Chennai, India**
- Research paper published in the **Turkish Journal of Physiotherapy and Rehabilitation**, presenting a **symptomatic approach** for **monitoring** Parkinson's disease patients.
- **Journal Details:** Turkish Journal of Physiotherapy and Rehabilitation, **ISSN 2641-4451**

•**Architectural Design of GIS and HMI for GTG**   *November 2018 – December 2018*
Bharath Electronics Limited   **Ghaziabad, India**
- Gained hands-on experience with **Geographic Information Systems (GIS)** and integrated **SPAT-GIS sensors** with a **web-based interface**.
- Designed and implemented a responsive **HMI** to **monitor** and **control** turbine operations effectively.
- Improved system **stability**, **reliability**, and **user experience** through thorough **testing** and **iterative design** enhancements.

Notable Technical Articles

- Explored the landmark computer science problem in **"Is P = NP? The Million-Dollar Question Reshaping Computer Science"** (Medium, Feb 2025).
- Delivered an expert guide on crafting interactive visualizations in **"Transforming Data into Dynamic Narratives with D3.js"** (Medium, May 2025).
- Authored a widely-read tutorial on API traffic management with **"Implementing Spring Cloud Gateway: A Comprehensive Guide"** (Medium, Jul 2024; 6,000+ readers).