

# Gaurav Raisinghani

☎ +1-480-738-2830   ✉ raisinghanii@outlook.com   💻 gauravraisinghani1998   🌐 gaurav-raisinghani

## EDUCATION

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- **Arizona State University** August 2024 - Dec 2025  
*Master of Science - Computer Science* CGPA: 3.89/4
- **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

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**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

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- **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 time** 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

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#### •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

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- 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).