

# Shivam Kumar

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## EDUCATION

KIET Group of Institutions

**Bachelor of Technology** | Computer Science

August 2021 – June 2025

## TECHNICAL SKILLS

**Languages** : Python, Java, SQL (MySQL, PostgreSQL), JavaScript, Typescript, HTML, XML, CSS

**Frameworks and libraries** : React, .NET Core, Node.js, ExpressJS, Bootstrap, Streamlit, Tensorflow

**DevOps and API Tools** : Git, Figma, Docker, Kubernetes, CI/CD, Postman, Power BI, Jupyter notebook

**Cloud and Security Tools** : AWS, SQL Server, Cisco Packet Tracer, Linux

**Others** : Data Modeling, Debugging, Computer Networks, Data Structures and Algorithms

## PROJECTS

**AI SaaS Chatbot** | React.js, HTML, CSS, JavaScript, Node.js, MongoDB **[VIEW PROJECT]**

June 2024

- Designed and Directed an AI-driven SaaS chatbot using the MERN stack, capable of handling 100+ concurrent users.
- Retains user data for up to 7 days to maintain personalized interactions across multiple sessions.
- Modernised backend for high reliability, ensuring seamless performance with scalable infrastructure.

**VoxelQuest** | Java, Custom Graphics Renderer **[VIEW PROJECT]**

February 2024

- Created a Java-based game engine similar to Minecraft, featuring a unique vowel-themed gameplay experience.
- Leveraged virtualized testing across 3 different platforms, ensuring broad compatibility and stable performance.
- Engineered a custom graphics renderer, achieving an average of 60 FPS.

**Custom Operating System using QEMU** | C and Assembly, QEMU, Makefile **[VIEW PROJECT]**

February 2024

- Optimized the custom operating system for 64-bit architecture, enabling enhanced performance and support for larger memory addressing.
- Implemented QEMU to simulate and test the OS performance with up to 4 GB of RAM.
- Generated a custom bootloader for system startup, managing 1-second boot time and initialization of core OS components.

**Real-Time Chat Application** | Html, JavaScript, CSS, Firebase **[VIEW PROJECT]**

September 2023

- Conducted thorough testing and debugging to ensure reliable performance and functionality, reducing bugs by 20%.
- Created JavaScript functions to handle message sending, retrieval, and dynamic updates to the chat interface, improving user interaction and engagement.
- Utilized Firebase Authentication to manage user sign-up, login, and secure access, enhancing user data protection and privacy.

## EXPERIENCE

**Market Research Analyst** | Mobalytics

July 2024 – Present

- Analyzed player performance data, improving insights accuracy by 35%.
- Created models for player behavior prediction, enhancing prediction reliability by 20%.
- Organised large datasets using Python and R, providing actionable insights that improved user engagement by 15%.

**Cybersecurity Internship** | Cisco Networking Academy

July 2023 – August 2023

- Implemented and managed network security protocols of educational institute to protect sensitive data, resulting in a 30% reduction in security breaches.
- Monitored and Operated security logs, detecting and responding to 20+ potential threats.
- Assisted in developing and updating 15+ security policies, strengthening organizational cybersecurity posture.

**Frontend Development Internship** | IBM Skillsbuild

June 2023 – July 2023

- Developed and optimized frontend web applications using HTML, CSS, JavaScript, and React, improving page load times by 20%.
- Conducted thorough code reviews and debugging sessions, reducing bugs and enhancing code quality by 30%.

**Minor Specialization** | KIET Group of Institutions

June 2022 – August 2022

- Assisted in designing and implementing scalable cloud solutions using AWS, improving system performance.
- Managed cross-functional teams, facilitating effective communication and collaboration, leading to a 15% improvement in team productivity.

## CERTIFICATIONS

**Full Stack Java Dev: java+JSP+Spring+JS+React** | Udemy

Present

**AWS Cloud Practitioner Essentials** | AWS Training and Certification

March 2024

**Introduction to Cybersecurity** | Cisco Networking Academy

June 2023

**Machine Learning Foundations** | LinkedIn learning

November 2022

## OTHER WORKS

**Leetcode, GeeksforGeeks, Code360, CodeChef** | Solved over 400 questions across various coding platforms.

**Girlsript Summer of Code 2023** | Contributed to open source projects and secured a position in the top 10%.

**DSDL Club** | Multiple leadership roles, including research team and industry relations, with 100+ club members