# AVINASH GUPTA

Prayagraj, Uttar Pradesh

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## TECHNICAL SKILLS

**Languages:** Java, Python, FastAPI, C, C++, HTML, CSS, SASS, JavaScript, JQuery, TypeScript, NodeJS, React, Spring Boot, PHP, SQL, NoSQL, C#, Multiprocessing, Threading, Machine Learning (ML)
**Technologies & Tools:** VS Code, Jupyter Notebook, Git, Google Colab, Selenium, Rest Assured, GitLab, Copilot

## EXPERIENCE

### Innovaccer (Software Development Engineer in Test I)                    05/08/2024 – Current

- Developed a Python script to automate performance data insertion into a PostgreSQL server, integrated and executed seamlessly through a Jenkins pipeline.
  **ROI:** Enabled persistent storage and historical analysis by replacing single-report-based analysis with PostgreSQL data insertion, reducing manual effort by 90% and enabling real-time performance monitoring.
- Designed and implemented a Python script utilizing multiprocessing to identify resource configuration differences between backend APIs post-deployment.
  **ROI:** Automated data retrieval across multiple production environments, eliminating the need for manual data collection for each client, decreasing post-deployment verification time by 70%, ensuring faster detection of configuration inconsistencies, and minimizing downtime.
- Developed and deployed a Python script to insert unit test coverage data into a PostgreSQL server for analysis, executed via a scheduled Jenkins job.
  **ROI:** Replaced a single automated sheet that was overwritten with the latest data, enabling persistent data storage and historical analysis, improving test coverage analysis efficiency by 80% and facilitating data-driven insights to enhance code quality.
- Leveraged GitHub Copilot to streamline day-to-day automation and development tasks, enhancing overall coding efficiency and productivity.
  **ROI:** Boosted development speed by 40%, reducing code review cycles and accelerating project delivery timelines.
- Implemented UI automation using Playwright with TypeScript to ensure seamless end-to-end testing and improved application reliability.
  **ROI:** Reduced UI regression bugs by 85%, significantly improving product stability and user experience.
- Developed and implemented API automation using Rest Assured with Java to perform comprehensive backend testing.
  **ROI:** Achieved 90% test coverage for backend APIs, reducing manual testing time and improving release confidence.

### Sprinklr (Software Development Engineer, QA (Automation))           10/07/2023 – 03/08/2024

- Automated workflows to reduce manual testing effort by streamlining repetitive tasks.
  **ROI:** Decreased manual effort by 70%, ensuring faster and more reliable software delivery.
- Developed a setup script to optimize automation, reducing initialization time and improving configuration efficiency.
  **ROI:** Reduced setup time by 60%, minimizing configuration errors and enhancing workflow efficiency.
- Created cleanup scripts to maintain data integrity and system efficiency post-execution by automating the removal of temporary files and environment resets.
  **ROI:** Automated cleanup reduced system clutter by 80%, ensuring consistent performance and preventing resource exhaustion.

### Keka Technologies (Full Stack Developer Intern)                      05/10/2020 – 14/07/2021

- As a Full Stack Developer intern, proficiently utilized a diverse array of technologies including HTML, CSS, SASS, JavaScript, JQuery, Typescript, NodeJS, React, SQL, C#, and threading techniques.

- Developed comprehensive skills across the entire stack, from front-end design to back-end logic, gaining valuable hands-on experience.
- Leveraged these technologies to contribute effectively to various projects, demonstrating adaptability and a strong foundation in both front-end and back-end development during the internship.

## EDUCATION

**Motilal Nehru National Institute of Technology, Allahabad**                    **2021 – 2023**
*M.tech - Computer Science & Engineering - **CPI** - **9.25***                    *Prayagraj, Uttar Pradesh*
**Relevant Coursework**: Advanced Algorithm, Advanced Database, Object Oriented Modelling & Design, Advanced Computer Networks, Advanced Data Modelling, Real Time System

**Bundelkhand Institute of Engineering & Technology**                    **2017 – 2021**
*B.tech - Computer Science & Engineering - **Percentage** - **78.58%***                    *Jhansi, Uttar Pradesh*
**Relevant Coursework**: Datastructure & Algorithm, DBMS, Operating System, Object Oriented Programming, Computer Networks, Web Development, Machine Learning

## PROJECTS

<u>**Mtech Thesis: DDoS Attack Detection.**</u> | Python, ML, Google Colab                    **08/2022 – 06/2023**
- Researched and authored an Mtech thesis centered on detecting Distributed Denial of Service (DDoS) attacks, showcasing specialized knowledge in cybersecurity and machine learning methodologies.
- Utilized Python programming to implement sophisticated algorithms and models for effective DDoS detection, highlighting proficiency in both programming and cybersecurity domains.
- Demonstrated the ability to bridge theory with practical application, contributing valuable insights to the field of cybersecurity through innovative research and experimentation.

<u>**Video-Conferencing**</u> ⬈ | Python, Socket, Tkinter, OOPS, VSCode                    **03/2022 – 04/2022**
- Developed a Video Conferencing application in Python, highlighting expertise in socket programming and network communication protocols for seamless real-time data transmission.
- mplemented a user-friendly graphical interface using Tkinter library, enhancing accessibility and user experience with intuitive controls and visually appealing design elements.
- Demonstrated proficiency in both backend functionality and frontend design, delivering a comprehensive solution for effective video communication.

## EXTRA-CURRICULAR

**Computer Science Students' Council (COSSCO), BIET Jhansi**                    **2018 – 2021**
- Served as a Management Team Member, organizing hackathons and contributing to various tech events.
- Promoted a vibrant tech community by facilitating events and fostering collaborative learning.

## ACHIEVEMENTS

- Gold Medalist in M.Tech (Computer Science & Engineering), demonstrating academic excellence.
- Qualified for Assistant Professor role through UGC NET 2022 with a score of 170, highlighting teaching and research aptitude.
- Secured a Gate 2021 score of 624 with an All India Rank of 1630, showcasing strong technical expertise.
- Solved competitive programming problems on LeetCode, HackerRank, GeeksforGeeks, and InterviewBit, demonstrating problem-solving skills.
- Subject Matter Expert (CSE) at Chegg India, resolving over 1800 queries, showcasing domain expertise.