

SHRUTI AGARWAL

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Professional Summary

Innovative CSE graduate skilled in full-stack development (Django, PHP/SQL, HTML5/CSS3/JavaScript) and security-centric solutions (real-time monitoring, LSB steganography). Proficient in Python, C/C++, RESTful APIs, Git/GitHub, CI/CD, Docker, Kubernetes & Agile methodologies.

TECHNICAL AND SOFT SKILLS

Languages: C/C++, Python, Java, JavaScript, HTML/CSS, PHP, Regex, SQL.

Frameworks: Django, Bootstrap, Tailwind CSS, Spring Boot.

Tools: Git, Docker, Selenium, Kubernetes, VS Code, PyCharm, IntelliJ.

Soft Skills: Responsiveness, Organizational Ability, Attention to Detail, Verbal Communication And Problem-Solving.

WORK EXPERIENCE

Full Stack Developer Intern-(TBI-GEU)

July 2024 - October 2024

- Built a MERN-based web application end-to-end, by designing RESTful APIs and structuring MongoDB schemas, enabling seamless data handling for ~1,000 monthly users and reducing API response time by ~25%.
- Automated development workflows using Git/GitHub version control and CI/CD pipelines integrated with Jenkins/Docker within Agile sprints, slashing deployment issues by ~30% and speeding up release cycles by 40%.
- Developed real-time, responsive user interfaces leveraging HTML5, CSS3, ES6 JavaScript, and Socket.IO, increasing user engagement and retention metrics by ~20% through live updates.

EDUCATION

B. TECH IN COMPUTER SCIENCE ENGINEERING -

Dehradun, Uttarakhand

Graphic Era (Deemed to be University)

DDPS: Secondary: 90 %

BIJNOR, UP

Higher Secondary: 85 %

PROJECTS

Data Leak Detection System: [\(View\)](#)

- Real time data monitoring system in python
- Developed a Python system to effectively identify and flag potential data leaks.
- Merged real-time monitoring for immediate detection and to data breaches.

Encryption and Decryption using Digital Cryptography of files: [\(View\)](#)

- Developed a Django-based steganography tool using LSB encryption for secure image data hiding.
- Designed a responsive UI with JavaScript, Bootstrap, and Tailwind CSS; implemented unit testing for validation

Lexical Analyzer: [\(View\)](#)

- Engineered a high-throughput C++ lexical analyzer with GUI leveraging DFA and regex for linear-time token classification in compiler design.
- Integrated symbol-table management and error-handling modules to bolster compiler front-end accuracy.

Certificates

Python Essentials 1 – Cisco Networking Academy

Intermediate SQL Certification – Hacker Rank

Introduction to Cyber Security – Cisco Networking Academy

Introduction to Generative AI – Google Cloud

Data Analytics & Visualization Program – Accenture North America (Forage)

Introduction to Data Science- Cisco Networking Academy