

# SHIVAM KUMAR SINGH

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## OBJECTIVE

Driven Computer Science student with a passion for problem-solving and software development, eager to contribute and grow in a dynamic tech environment.

## EDUCATION

Degree	Institute	CGPA	Year
B.Tech., CSE	Lovely Professional University	8.7	2023-2027

## INTERNSHIP AND EXPERIENCE

### On-Demand Scoring Infrastructure Migration

Summer 2025

AWS Fargate, Lambda, EC2, ECR, Kafka, Parameter Store, TypeScript, Node.js, Java, Docker

- Reduced infra cost by ~80% and boosted scoring speed by 70% using Fargate
- Automated scoring via Kafka-triggered Lambda with real-time tracking
- Enabled modular multi-scorer setup; improved code reuse by 90%

### Advanced Stock Analysis Dashboard

Summer 2025

Python, Streamlit, yfinance, Plotly, Pandas

- Built real-time stock dashboard with interactive charts and key indicators
- Enabled custom analysis of major stocks with export-ready financial insights via a dynamic Streamlit UI
- Integrated yFinance live data and Plotly visualizations; deployed on a server for continuous access.

### Challenge Management Dashboard

Summer 2025

TypeScript, Node.js, Express.js, PostgreSQL, Prisma, REST APIs, HTML/CSS, JavaScript

- Built REST APIs with Prisma & PostgreSQL for full challenge management
- Designed responsive dashboard with filters, stats & 80% UI coverage
- Integrated Swagger, API Explorer & GitHub tracking for better dev workfl

## PROJECTS

### Alternative-Routes in Road Networks

Winter 2024

C++, Graph Theory, Dijkstra's Algorithm, OOP

- Simulated dynamic road networks using Dijkstra's algorithm under traffic variations
- Modeled vehicles, roads & rules with OOP; enabled real-time speed adjustments
- Evaluated route efficiency with randomized congestion for realistic behavior.

### Lookups API Migration – Reference Data Modernization

Summer 2025

NestJS, TypeScript, PostgreSQL, Prisma, JWT

- Migrated legacy Express APIs to NestJS with full compatibility and type safety
- Consolidated DynamoDB and Elasticsearch into PostgreSQL
- Reduced infrastructure complexity by ~60% and setup time by 70%
- Designed schemas, migrated 100K+ records, and delivered docs, Postman suite & tests

## RELEVANT COURSEWORK

Object Oriented Programming, DBMS, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Java, Software Engineering, Artificial Intelligence Essentials, Probability and Statistics, MERN, Design and Analysis of Algorithms

## SKILLS

- **Programming Languages:** C, C++, Java, Python, TypeScript
- **Web Development:** HTML5, CSS3, JavaScript, CSS Flexbox, Bootstrap, React.js, Express.js, Node.js
- **DevOps & Tools:** Git, Docker, Kubernetes, Bash, Linux
- **Cloud Computing:** AWS (Lambda, EC2), Cloud Computing (IaaS)
- **Databases & Backend:** MongoDB, SQL, PL/SQL, Apache Kafka, DBMS
- **Core CS Concepts:** Operating Systems, Data Structures, OOP, Game Theory
- **Other Skills:** Analytical Skills, Microsoft Excel, Engineering Fundamentals, NumPy, Pandas, Streamlit

## ACHIEVEMENTS AND CERTIFICATION

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- **Secured** Rank 427 out of 26,445 **in** Codequest 360 by Naukri Campus, **showcasing strong problem-solving skills**
- **Completed** GeeksforGeeks 160 Days DSA Challenge, **reinforcing core data structures and algorithms proficiency**
- **Participated in** CTF cybersecurity challenges, **gaining hands-on experience in cryptography, reverse engineering.**

## EXTRACURRICULAR

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- **Expert on Codeforces with a rating of 1648, actively solving global algorithmic problems**
- **★★★ (3-Star) Coder on CodeChef, consistently participating in rated contests**
- **★★★ (3-Star) on GeeksforGeeks, solving structured DSA problems regularly**
- **Achieved 1800+ rating on LeetCode, ranked in the top 9.4% globally**
- **Ranked 293 out of 25,214 in CodeNite by IIT Kharagpur (Top 1.16%)**
- **Regular participant in national/international coding contests.**