

# Nirmit Pratap Singh

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## Professional Summary

Software Engineer proficient in Python, JavaScript, TypeScript, and Angular, specializing in full-stack development of scalable, responsive web applications. Expertise in RESTful APIs, cloud technologies, and Agile methodologies, delivering optimized solutions that improve performance by up to 30%. Skilled in frontend and backend development, with a proven ability to solve complex problems and collaborate effectively in cross-functional teams to achieve project goals.

## Education

<b>V.I.T Bhopal University</b> <i>Bachelor of Technology in Computer Science and Engineering</i> <b>CGPA:</b> 9.20/10.0 Coursework: Data Structures, Algorithms, Database Systems, Web Development, Artificial Intelligence	<b>Bhopal, Madhya Pradesh, India</b> 2022–Present
<b>Bhavan's Kesari Devi Kanoria Vidya Mandir</b> <i>Senior Secondary (12th, CBSE Board)</i> <b>Percentage:</b> 95.8% (Mathematics, Physics, Chemistry)	<b>Renukoot, Uttar Pradesh, India</b> 2021–2022
<b>Bhavan's Kesari Devi Kanoria Vidya Mandir</b> <i>Secondary (10th, CBSE Board)</i> <b>Percentage:</b> 97% Awarded Top 0.1% Certificate in Science (CBSE Board)	<b>Renukoot, Uttar Pradesh, India</b> 2019–2020

## Professional Experience

<b>Fusionstak LLC</b> <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>Designed and maintained a judicial case management system using Angular 18, Material UI, and Tailwind CSS for 10,000+ users.</li><li>Enhanced frontend performance by 25% through optimized rendering and lazy loading techniques.</li><li>Developed responsive UI/UX designs, ensuring compatibility across web and mobile platforms.</li><li>Integrated RESTful APIs, improving data processing efficiency by 20% for critical operations.</li><li>Collaborated in Agile workflows using Jira and BitBucket, delivering features in a 5-member team.</li></ul>	<b>Pune, Maharashtra, India</b> Sep 2024–Dec 2024
<b>Hack2Skill Hackathon</b> <i>Software Developer</i> <ul style="list-style-type: none"><li>Led development of KSP Portal, an emergency response platform for Karnataka Police using Python, JavaScript, and Chart.js.</li><li>Implemented geolocation-based services, reducing response times by 15% for 500+ test scenarios.</li><li>Built interactive data visualizations to streamline decision-making for emergency operations.</li><li>Achieved Top 50 ranking in a national hackathon, advancing to Pre-Final round.</li></ul>	<b>Remote</b> Feb 2024–June 2024

## Projects

<b>TypeScript, React, Tiptap</b> <i>React Nickify</i>	<b>Open Source</b>
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- Created an npm package for a rich text editor toolbar, achieving 600+ downloads on npmjs.com.
- Collaborated with 3+ developers on GitHub, managing code reviews and pull requests for continuous integration.
- Improved functionality by 20% using modular TypeScript components and Tiptap framework.
- npmjs.com/package/react-nickify

## Python, CustomTkinter, Google Sheets API

Freelance

### 108 Dropsy

- Developed a business management tool for drop-servicing with Google Cloud APIs for real-time data sync.
- Automated workflows, increasing adoption by 40% among 50+ clients.
- Optimized API performance by 15% through efficient request handling and caching strategies.

## Python, Scikit-Learn, Matplotlib, CNN, RNN

Research

### Parkinson Analyzer

- Engineered a machine learning platform for Parkinson's disease diagnosis using voice, spiral, and wave data.
- Attained 98% accuracy with CNN and RNN models, validated on 1,000+ patient datasets.
- Generated Matplotlib visualizations to support medical diagnostics and research analysis.

## Python, Django REST Framework, React, Tailwind CSS, Chakra UI, Apache Kafka

Social Media

### Trop8

- Built a full-stack social media dating platform with JWT authentication and Bloom Filter-based search.
- Optimized search performance by 30%, supporting 10,000+ user queries with low latency.
- Integrated Apache Kafka for real-time event streaming, boosting data processing by 30%.
- Enhanced user engagement by 15% with Framer Motion for dynamic UI animations.

## Technical Skills

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**Programming Languages:** Python, JavaScript, TypeScript, Java, C++, SQL, HTML, CSS

**Frameworks & Libraries:** Django REST Framework, Flask, React, Angular 18, Node.js, Chart.js, Scikit-Learn, Matplotlib, Framer Motion

**Tools & Platforms:** Git, BitBucket, Jira, IntelliJ IDEA, PyCharm, VS Code, AWS, Apache Kafka, Google Cloud APIs

**Methodologies:** Agile, Scrum, Test-Driven Development, RESTful API Development, Continuous Integration

**Professional Skills:** Problem-Solving, Team Collaboration, Effective Communication, Time Management, Analytical Research

## Certifications

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- NPTEL Cloud Computing Certification (2024)
- NPTEL Marketing Analytics Certification (2025)

## Languages

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**English:** Fluent (Professional Proficiency)

**Hindi:** Native

**German:** Beginner