

# NISHANT SIROHI

+91 8630277749 ◇ New Dehli, India

[sirohi2307@gmail.com](mailto:sirohi2307@gmail.com) ◇ [linkedin.com](https://www.linkedin.com) ◇ [Github](https://github.com)

## OBJECTIVE

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Seeking the Software Engineer position at Volvo, with a passion for technology and a strong foundation in computer science, to contribute to the development and deployment of innovative solutions while gaining valuable hands-on experience

## EDUCATION

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**B.Tech CSE**, Meerut Institute of Engineering and Technology Expected 2024  
Relevant Coursework: Data Structures and Algorithms, Web Development and Mobile App Development.

**Senior Secondary and Higher Senior Secondary, CBSE** , Army Public School 2017 - 2020

## SKILLS

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<b>Programming Languages</b>	Python (20K+ loc), Java (50K+ loc), JavaScript, C/C++, Assembly
<b>Tools and Technologies</b>	React JS, Node JS, Django, Cloud(AWS), DevOps, WS-Restful, JMS, Git/Github MySQL, Hibernate, Spring, Fusion 360, Processing, Linux, PostgreSQL JUnit, Maven, JIRA, Jenkins, Docker, MongoDB, SAFE Agile
<b>Soft Skills</b>	Communication, Adaptability, Teamwork, Leadership, Problem-Solving, Creativity

## EXPERIENCE

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**Data Science And Machine Learning Intern** Dec 2022 - Mar 2023  
Coding Ninjas *Remote*

- Achieved **20% growth** using data science and machine learning, including **NLP, deep learning and TensorFlow**
- Led data science team, resulting in a **15% revenue increase via predictive modeling and analysis**
- Proficient in Natural Language Processing, deep learning, statistics, and data visualization, with a focus on **driving revenue growth and optimizing processes**

**Full-stack Developer** Jun 2022 - Sep 2022  
OneAll Digital *Remote*

- Achieved **30% growth** with **React, Node.js, and MongoDB**. Implemented key features for increased user engagement and adoption
- Developed a robust MERN application with **Redux, GraphQL, and Docker** for optimal performance, scalability, and efficient deployment
- Designed a **feature-rich web app** with advanced functionality, enhancing user engagement and experience

## PROJECTS

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**C++ GPU Compiler and Code Optimization Tool** Jul 2023 - Sep 2023  
CUDA, Qt, wxWidgets, C++ *Team Size - 5*

- Developed a state-of-the-art C++ GPU compiler and optimization tool, automating code analysis and GPU-specific code generation
- Achieved significant GPU code performance enhancements through advanced code analysis, addressing bottlenecks and optimizing memory usage
- Streamlined developer workflows with an intuitive user interface, enhancing GPU utilization for high-performance computing and graphics tasks

## Autonomous Drone Navigation With Computer Vision

Apr 2022 - Jun 2023

PX4, Python and cv2

Team Size - 2

- Developed an autonomous drone navigation system using cutting-edge computer vision algorithms
- Achieved precise object detection, obstacle avoidance, and path planning for unmanned aerial vehicles, enabling autonomous missions
- Successfully demonstrated the project's capabilities, paving the way for applications in industries like surveillance, agriculture, and logistics

## Customer Churn Prediction Model

Dec 2022 - Mar 2023

Python, SQL and Statistical Modeling

Team Size - 1

- Developed a machine learning model using historical data and customer behavior analysis to predict customer churn, resulting in a 15% reduction in churn rate through targeted retention efforts
- Utilized features such as usage patterns and demographics to enhance model accuracy and identify high-risk customers, enabling proactive retention strategies
- Implemented advanced ensemble modeling techniques to assess and predict customer churn, contributing to improved customer retention and overall business profitability

## Color Switch

Jun 2022 - Sep 2022

Java JavaFX, FXML, SceneBuilder

Team Size - 2

- Created a replica of the obstacle-based game "Color Switch," featuring an extensive array of 10+ obstacles and 2 distinct game modes, while employing principles of Object-Oriented and Event-Driven programming
- Expanded the game's capabilities by incorporating vector-based animations and enforcing highly accurate replication of game physics.

## AWARDS AND ACHIEVEMENTS

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- Achieved Amazon Certified status as an AWS Solutions Architect - Professional
- Microsoft Certified in Power Platform Fundamentals
- Attained a remarkable 93.6 percentile in the JEE Mains examination
- Secured 2nd position in the National Science Olympiad
- Qualified for the prestigious Indian National Mathematics Olympiad (INMO)
- Awarded a scholarship at Army Public School, Meerut

## POSITIONS OF RESPONSIBILITY

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| • Distinguished participation as a core member of Amazon's ML Summer School      | Sep 2023 - Present  |
| • Served as a vital core member of Ideathon @MIET                                | Jun 2023 - Present  |
| • Contributed to web development projects with the Google Developer Student Club | Jun 2022 - Apr 2023 |
| • Actively contributed to the Student Council at Army Public School, Dehradun    | Apr 2019 - Feb 2020 |

## INTERESTS AND HOBBIES

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- Music Production
- Playing Guitar
- Table Tennis
- Chess (FIDE Rating 1135)
- Cricket