

# RATAN SINGH

#B101, Sunanada Residency, Domlur, Bengaluru, Karnataka 560037  
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## EDUCATION

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**Guru Nanak Dev Engineering College, Bidar**  
Bachelor in Technology (B.Tech)  
Department of Computer Science and Engineering

*August 2015 - July 2019*

## WORK EXPERIENCE

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### SwitchOn, Bengaluru

*Team Lead (Application Team)*

*July 2022 - Present*

- Directed a diverse team of 14 Engineers, including Frontend, Backend, and QA specialists, fostering a collaborative and high-performance culture.
- Recognized as a **founding member** due to substantial contributions to a Series-A funded startup, playing a pivotal role in its growth and development. Causing the year-on-year growth of **4x-5x**.
- Implemented a structured process and established a pipeline that enabled the organization to achieve consistent monthly release cycles, enhancing operational and sales efficiency.
- Developed a custom automation framework from the ground up, significantly improving testing efficiency and reliability.

### SwitchOn, Bengaluru

*Software Engineer (Python Application)*

*Sept 2020 - July 2022*

- As an **early member** of the team, led the development of the application from the ground up. This included gathering requirements and architecting the entire product ecosystem, setting a solid foundation for future expansion.
- Developed and implemented an application model that streamlined customer feasibility testing, reducing the process from **3 days** to just **1 hour**, significantly accelerating the sales cycle.
- Optimized high-speed AI applications by implementing shared memory and multiprocessing techniques, dramatically reducing communication times from **60ms** to an impressive **10ms**.
- Led recruitment and developed client handover processes, ensuring smooth project transitions and client satisfaction.

### Intozi Tech Pvt Ltd, Gurugram

*Software Developer (Computer Vision)*

*Jan 2020 - Jun 2020*

- Presented product demo to various clients including **Addl. CP of Mumbai**.
- Integrated algorithms on advanced hardware such as Nvidia's Jetson Nano, and Intel's Movidius.
- Implemented object tracking and monitoring algorithms in products.
- Developed complete optimized deployable face detection/recognition-based SDKs and software installers.

### Intozi Tech Pvt Ltd, Gurugram

*Computer Vision Intern*

*July 2019 - Jan 2020*

- Revamped the mapping algorithm to convert and map **RADAR's** world coordinate to a pixel coordinate
- Developed calibration software for various IOT and computer vision-based products from scratch.
- Optimized ongoing product which led to approx **150%** increase in performance.

## TECHNICAL STRENGTHS

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<b>Programming Language</b>	Python, C/C++, Java.
<b>Operating System</b>	Linux & Windows.
<b>Framework &amp; Libraries</b>	FastAPI, Flask, PyQt, OpenCv, Pandas, Java Swings .
<b>Database</b>	SQL, MongoDB