

RATAN SINGH

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TECHNICAL STRENGTHS

Technologies	Python, C/C++, Git, AWS.
Framework & Libraries	FastAPI, Flask, PyQt, OpenCv, Pandas, Docker & Kubernetes.
Database	MongoDB, SQL, MySQL

WORK EXPERIENCE

SwitchOn, Bengaluru

Team Lead (*Application Team*)

July 2022 - Dec 2025

- Recognized as a **key founding member** of a **Series-A startup**, contributing to **4x–5x** YoY revenue growth through scalable engineering solutions and agile process improvements.
- Led a **14-member** cross-functional team delivering reliable industrial AI software on monthly cycles.
- Built a custom test automation framework using **Python Selenium** that improved test coverage by **70%** and reduced manual testing time by over **50%**.
- Built a secure end-to-end pipeline ensuring code protection while enabling custom change tracking.
- Built Helm charts and custom Docker images for Nokia's orchestration platform.

SwitchOn, Bengaluru

Software Engineer (*Python Application*)

Sept 2020 - July 2022

- Spearheaded the greenfield development of an AI-powered visual inspection platform, collaborating with stakeholders to define features and system architecture from scratch using **FastAPI** and **Reactjs**.
- Created an application, slashing evaluation time from **3 days** to **under 1 hour**, directly accelerating the sales cycle.
- Optimized high-speed computer vision pipelines using shared memory and multiprocessing, reducing IPC latency from **60ms** to **10ms** and boosting throughput.
- Played a pivotal role in recruitment, documentation, and client handover procedures, ensuring seamless onboarding and operational continuity.

Intozi Tech Pvt Ltd, Gurugram

Software Developer (*Computer Vision*)

Jan 2020 - Jun 2020

- Demonstrated product capabilities to stakeholders including senior law enforcement officials (**Additional Commissioner of Police, Mumbai**) to drive adoption.
- Deployed vision algorithms on edge devices (**Jetson Nano, Movidius**).
- Built object-tracking and monitoring solutions for real-time surveillance.
- Developed optimized face-detection and recognition SDKs and packaged them into deployable installers for client integration.

Intozi Tech Pvt Ltd, Gurugram

Computer Vision Intern

July 2019 - Jan 2020

- Refactored a mapping algorithm to convert RADAR world accurately coordinates to pixel coordinates, improving system precision.
- Created calibration software from scratch for various IoT and computer-vision-based products, reducing manual setup time.
- Optimized legacy code to achieve **150%** performance improvements in existing products.

EDUCATION

Guru Nanak Dev Engineering College, Bidar

August 2015 - July 2019

Bachelor in Technology (B.Tech)

Department of Computer Science and Engineering