

Vikrant Sharma

Data Engineer & Machine Learning Engineer

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I build systems that turn messy signals into decisions: data platforms, ML threat detection and security tooling that actually ships. Industry experience across Voxon Photonics, Nagarro, SecurDI. NASA Space Apps Global Finalist 2023. Open to internships now and graduate roles from August 2027.

EXPERIENCE

Artificial Intelligence Engineer · Voxon Photonics

Aug 2026 to Present

Internship · Adelaide, South Australia, Australia · On-site

- Working on native AI integration in VoxelOS through UniSC's Master of ICT dissertation industry placement.
- Developing two pipelines for the internal Command Centre.
- Building Unreal Engine MetaHuman experiences with real-time facial expressions and voice-driven interaction.

Data Engineer · Nagarro

Dec 2024 to Feb 2025

Full-time · Udyog Vihar, Sector 18, Gurugram, Haryana · Remote

- Designed and optimised dimensional data models on AWS Redshift and Snowflake for enterprise analytics workloads.
- Built ETL pipelines that transformed high-volume transactional data into analyst-ready dimensional tables.
- Delivered iterative client work via Agile and Scrum, collaborating with cross-functional teams of data analysts and product owners.

Cyber Security Junior Analyst · SecurDI

May 2023 to Dec 2023

Internship · Remote

- Monitored SIEM platforms and triaged alerts to identify and escalate genuine security incidents.
- Authored incident response runbooks adopted by the wider security operations team.
- Performed OWASP Top 10 web application security testing for client engagements.
- Conducted ISO 27001 and NIST CSF compliance audits across multiple client environments.

SELECTED PROJECTS

StudentOps Data Platform

An end-to-end data platform that ingests six sources into a layered Postgres warehouse with dbt and Prefect, then serves a dashboard, a daily digest and a Claude assistant.

Python · Postgres · dbt · Prefect · Streamlit · Claude API

Hybrid ML Intrusion Detection

A real-time hybrid intrusion detection system that runs an ensemble of ML models over network traffic and maps every alert to MITRE ATT&CK.

Python · PyTorch · scikit-learn · Scapy · Streamlit · Docker

ThreatLens

A CVE triage service that pre-ranks vulnerabilities by what is actually exploitable against your assets.

FastAPI · NVD API · MITRE ATT&CK · Pydantic

Cosmic Keys

A planetary-data sonification engine that turns numbers into music, a NASA Space Apps Global Finalist project.

Python · Streamlit · NumPy · PIL

TECHNICAL SKILLS

Machine learning	Python, PyTorch, scikit-learn, XGBoost, SMOTE, Pandas, NumPy, anomaly detection
Cybersecurity	MITRE ATT&CK, OWASP Top 10, NIST CSF, ISO 27001, SIEM, Suricata, Wireshark, incident response
Data engineering	SQL, AWS Redshift, Snowflake, PostgreSQL, Apache Airflow, ETL, dimensional modelling
Web, cloud and DevOps	FastAPI, Flask, React, Astro, TypeScript, Docker, AWS, OCI, Cloudflare, GitHub Actions, Linux

EDUCATION

Master of Information and Communications Technology

University of the Sunshine Coast, Adelaide Campus

Jul 2025 to Aug 2027

Bachelor of Computer Applications

CHARUSAT, CMPICA

2021 to 2024

CERTIFICATIONS & AWARDS

- AWS Certified Data Engineer - Associate · Amazon Web Services · 2026
- OCI Data Science Professional · Oracle · 2025
- NASA Galactic Problem Solver · NASA Space Apps Challenge · 2023
- icSoftComp Intl. Conference · Springer and CHARUSAT · 2022
- TCS iON Career Edge · Tata Consultancy Services · 2023
- Backend Web Dev, Express and Node · DevTown, GDSC KIIT, AWS CB · 2023
- NASA Space Apps Challenge Global Finalist · Team Eklavya · 2023

AVAILABILITY & WORK RIGHTS

International student (subclass 500): unlimited hours during course breaks, capped during trimester. Expected to be eligible for a post-study work visa (485) on graduation in August 2027, subject to meeting the stream requirements at the time.