

Lakshay Arora

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Professional Summary

Final-year Computer Science student at RMIT University with practical experience across machine learning, DevOps, cloud-native development, and full-stack engineering. Skilled in Python, TensorFlow, Kubernetes, and Rust, with a strong foundation in AI/ML systems, software lifecycle practices, and infrastructure automation. Adept at transforming complex data into real-world solutions, contributing to AI products from prototype to production. Certified in Azure AI Fundamentals and experienced in Agile environments, I bring a growth mindset, curiosity, and technical rigor to innovative, cross-functional teams.

Education

RMIT University – Melbourne, Australia

Bachelor of Computer Science (Expected Dec 2025)

Major: Advanced Computer Science

- **Coursework:** Data Structures & Algorithms, Machine Learning, Software Engineering Fundamentals, Web Development
- **Activities:** Peer Mentoring (guided new students in programming labs and best practices)

Technical Skills

- **Languages:** Python, C++, Java, Rust, JavaScript
- **ML/AI Tools:** TensorFlow, Keras, BERTopic, VADER, NRClex, Scikit-learn
- **Cloud & DevOps:** AWS (Lambda, EC2, S3, DynamoDB, API Gateway), Kubernetes, GitHub Actions, FluxCD, GitOps
- **Web Technologies:** React.js, HTML, CSS, Node.js, REST APIs
- **Concepts & Tools:** CI/CD, Multithreading, POSIX, Memory Management, Valgrind, Git, Linux
- **Soft Skills:** Communication, Team Collaboration, Time Management, Critical Thinking

Work Experience

DevOps & Cloud Engineering Intern

Staffinity Technologies GmbH — Melbourne, VIC (Feb 2025 – Jun 2025)

- **Built** Rust-based gRPC services and automated GitOps pipelines with FluxCD & Kubernetes
- **Deployed** GDPR-compliant, self-hosted SaaS using GitHub Actions, CI/CD, and observability
- **Delivered** 100% test pass rate across 40+ unit and integration tests; collaborated with product teams on platform scalability

Full Stack Developer Intern

International Film Festival of Australia – Melbourne, VIC | Nov 2024 – Feb 2025

- **Build** and maintain dynamic web components using **React.js**, streamlining the platform's film submission and scheduling workflows.
- **Optimized** page load times by **~40%** through front-end refactoring, resulting in improved user engagement.
- **Collaborate** with cross-functional teams using Agile sprints and code reviews for continuous delivery.
- **Implement** responsive layouts, increasing mobile traffic retention by **30%**.

Software Engineer Intern

Wonder Electricals Limited – New Delhi, India | Jul 2022 – Sep 2022

- **Enhanced** embedded software performance in **C++** by **~20%** through algorithmic optimizations and efficient data structures.
- **Established** version control and basic CI pipelines, minimizing integration conflicts.
- **Collaborated** closely with senior developers on bug fixes, documentation, and feature scoping, solidifying SDLC best practices.

Projects

Colon Cancer Image Classification (TensorFlow/Keras) | Apr 2025 – May 2025 | RMIT University

- Built deep CNN models to classify histopathology images across five categories
- Tackled class imbalance with augmentation, dropout, and semi-supervised learning
- Evaluated with F1-scores and confusion matrices; benchmarked against academic datasets

Framing Generative AI: Cross-Platform NLP Analytics | May 2025 - June 2025 | RMIT University

- Scraped ~125k social media data points using PRAW & YouTube API
- Applied BERTopic, VADER, and community detection to derive platform-specific sentiment trends
- Delivered insights through dashboards and an executive summary for policy and product strategy

Cloud Music Subscription Platform (AWS) | FEB 2025 - APR 2025 | RMIT University

- Designed a serverless music streaming app using AWS Lambda, EC2, S3, and DynamoDB
- Implemented user auth, dynamic content management, and subscription logic via API Gateway

Achievements & Certifications

- **Microsoft Certified: Azure AI Fundamentals**, Apr 2024
- **AI Summer School Bootcamp**, Akkodis, 2024
- **Peer Mentoring Program**, RMIT University, Apr 2024