

# LEANDRA SHANIA ANDERSON

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## EDUCATION

### RV College of Engineering

Master of Computer Applications (Data Science)

Feb 2023 – Nov 2024

Bangalore, India

- Conducted research in Blockchain, Cryptography, Computer Vision, and Algorithm Development, focusing on scalable consensus mechanisms, efficient algorithms, and object recognition under resource constraints.
- Published multiple papers in IEEE, gaining strong experience in research design and experimentation.

### St. Joseph's College

Bachelor of Science (Physics, Mathematics, Computer Science)

Jun 2019 - Aug 2022

Bangalore, India

- Built strong foundations in Electronics, Advanced Calculus, Computer Architecture, and Distributed Databases.
- Developed academic projects exploring large-scale data storage, backend architectures, and distributed systems.

## WORK EXPERIENCE

### Swym Corporation

Engineer

Nov 2024 – Present

Bangalore, India

- Implemented an AI-driven personalization solution for Swym's e-commerce apps (Wishlist, Gift Registry, etc) on Shopify and BigCommerce, making them more adaptive to merchants' unique needs and reducing support tickets by **30%**.
- Enhanced and optimized app integrations for diverse storefronts, ensuring seamless customization and improved merchant experience.

### Volvo Cars

Frontend Engineering Intern

Feb 2024 – July 2024

Bangalore, India

- Built and optimised reusable React and Next.js components for international markets, ensuring responsive design across devices from mobile screens to large monitors.
- Enhanced global usability by implementing multilingual support, accessibility features, and contributing to enterprise workflows including monorepos, CI/CD pipelines, regression testing, and peer code reviews.

### RMgX Technologies

Backend Engineer

Aug 2022 – Feb 2023

Bangalore, India

- Designed REST APIs and optimised time-series database schemas for Bihar's Flood Management System, enabling real-time statewide flood alerts with low-latency and fault-tolerant performance.
- Developed scalable messaging and notification modules for CULive social media platform using event-driven architecture and asynchronous messaging queues, improving concurrency and reliability.

### OnePercent

Software Engineering Intern

Aug 2021 – Aug 2022

Bangalore, India

- Built an HR Management System using Laravel, MySQL, and Flutter, automating leave requests, document workflows, internal communication, and performance tracking for 150+ employees.
- Deployed scalable solutions on AWS, translating abstract requirements into maintainable, production-ready systems and improving operational efficiency.

## PUBLICATIONS

### Efficient Storage and Analysis of Videos through Motion-Based Frame Removal

[Link](#)

IEEE International Conference on Contemporary Computing and Communications

- Published research on CCTV surveillance optimization, proposing a motion-based frame removal system using OpenCV that reduced storage costs while preserving critical motion events, enhancing efficiency and scalability.

### Secure, Private and Transparent Messaging on a Public Blockchain

[Link](#)

IEEE International Conference on Computation System and Information Technology for Sustainable Solutions

- Published research on a blockchain-based messaging system employing asymmetric encryption and decentralized storage to enhance data security, privacy, and platform interoperability while preventing monopolistic control of user information.

### Maximizing Shelf Life Efficiency: Enhancing Sustainability through Smart Food Processing

[Link](#)

IEEE International Conference on Emerging Technologies in Computer Science for Interdisciplinary Applications

- Published research on a data-driven smart food allocation system using predictive analytics to minimize waste, improve food security, and enhance sustainability in agricultural supply chains.