

# KANISHK SRIVASTAVA

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Apple Swift Student Challenge 2026 winner and CS major at SRMIST (CGPA 9.84) with experience at Infosys and DRDO, and 4 shipped projects spanning iOS, ML, and systems engineering. Practised in Agile, CI/CD, and SDLC across team and solo contexts.

## EDUCATION

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### SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR

Chennai, Tamil Nadu

Bachelor of Technology

Expected May 2027

Major in Computer Science Engineering

CGPA: 9.84/10

Relevant Coursework: Data Structures, Algorithms, Machine Learning, Operating Systems, DBMS, Compiler Design.

## WORK EXPERIENCE

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### INFOSYS, MYSORE (Training Center)

Mysore, Karnataka

iOS Developer Intern; On-Site

Mar 2026

- Led a 10-member Agile team as tech lead on Sierra, a Fleet Management iOS app project - set UI baselines for 15+ screens, owned delivery across 3 sprint workstreams, and shipped 15+ features across 3 user roles in Jira-tracked CI/CD cycles.
- Configured 3-role access control (Fleet Manager, Driver, Maintenance) with Face ID authentication and AES-256 encrypted storage, securing a system designed for 1,000+ concurrent users.
- Integrated REST APIs with PostgreSQL data models, enabling structured data persistence and retrieval across modules.
- Delivered 6 core modules - GPS vehicle tracking, geofence zone alerts, task scheduling with reassignment, VIN camera scanning, and driver status monitoring - using MapKit and Core Location.

### IOS DEVELOPMENT CENTER, SRMIST (in collaboration with Apple, Infosys)

Chennai, Tamil Nadu

Student iOS Developer; On-Site

Aug 2025 – Present

- Directed a 3-member team through SDLC - from problem scoping and Agile sprint planning to Storyboard UI delivery and backend integration - following Apple's product lifecycle standards.
- Developed 2 iOS apps, shipping a solo and a team project through end-to-end reviews.

### AYKA INDIA TRUST (a non-profit trust for welfare of children)

New Delhi

Summer Intern; On-Site

June 2025 – Jul 2025

- Conducted digital literacy workshops across Delhi slums, empowering 100+ children with essential smartphone and internet skills in low-income urban communities.
- Launched a personal crowdfunding campaign - Chhoti Muskaan, Badi Umeed, raising ₹10,000+ to fund school kits, hygiene supplies, and classroom improvements.
- Managed on-ground community outreach by coordinating logistics and resource distribution across 3 locations, and assisted in organizing funding meetings with schools.

### DEFENCE RESEARCH & DEVELOPMENT ORGANISATION (DRDO, ISSA)

Metcalf House, New Delhi

Full Stack Intern; On-Site

May 2025 – Jul 2025

- Engineered a scalable organizational-tree system (Angular, PrimeNG, Spring Boot, Java) to manage 500+ nodes.
- Implemented 10+ functionalities, including node CRUD, drag-and-drop, search, tagging, and JSON operations.
- Streamlined frontend performance, reducing latency by 30% and improving large data handling by 40%.

### BRAINMINT (an EdTech Company)

Chennai, Tamil Nadu

Frontend Intern; Remote

Feb 2025 – Jul 2025

- Improved UI responsiveness by 40% through optimized React rendering and state management.
- Maintained Git-based workflows to support multi-developer collaboration with structured commits and code reviews.
- Engineered 15+ reusable React components, ensuring consistent UI behavior.

## PROJECTS

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### TENDRIL - HABIT + EMOTION LOGGER

February 2026

- Built Tendril, a habit and emotion tracking app where each logged habit feeds a living plant companion - users pick from 5 emotional states per entry and watch their plant progress through 3 growth stages based on consistency.
- Architected a 3-tab offline-first app with 3 persistent data models, a deterministic vitality engine processing gain and decay on every app open, and state-synced across 10+ views - zero network calls, zero backend dependency.
- Won Apple's Swift Student Challenge 2026 as a solo submission (one of 350 selected globally), spanning vitality mechanics, 3 data models, decay systems, and animation logic.

### CONCLAVE - A POLLING SOCIAL MEDIA APP

Ongoing

- Built Conclave - a native iOS social network polling app in UIKit, with a swipe-vote-reveal feed, Circles, trends, a custom poll creation flow and poll insights.
- Structured 6 independent feature systems - feed, Circles, trending, poll creation, profiles, and insights - each with its own data layer and navigation flow, across 20+ screens.
- Embedded post-vote analytics for 5 demographic axes (overall, engagement, age, gender, location) and poll chains linking up to 6 sequential polls with feed filtering - covering 3 poll types and a full 5-tab navigation system.

### KAIROS - REGIME AWARE TEMPORAL FEATURE FUSION

March 2026

- Constructed a 1D-CNN + Transformer model trained on 7-feature, 20-day financial time-series windows, replacing 2D spatial convolutions with 1D temporal ones to eliminate false cross-feature assumptions — replicating and correcting a published baseline (Expert Systems with Applications, IF ~8.5).
- Introduced a 3-class dynamic threshold labeling system (Down/Neutral/Up) using 30-day rolling volatility windows and walk-forward validation over expanding folds, replacing the static 60/20/20 split and removing forward data leakage.
- Benchmarked against 4 baselines (Dummy, XGBoost, LSTM, 1D-CNN ablation) using Macro F1-score and MCC on NSE financial time-series data.

### SOLARIS - ROCKET LAUNCH & BOOSTER CATCH DIGITAL TWIN

May 2025

- Prototyped a rocket launch and booster catch hardware-software digital twin using Unity 3D, Arduino IDE, and ESP8266, achieving 95% real-time synchronization accuracy.
- Coupled ultrasonic liftoff detection and electromagnet-based booster release to a synchronised Unity 3D simulation layer achieving sub 300 ms hardware-to-render state sync.

## ACTIVITIES

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### SRM QUANTUM COMPUTING CLUB

Chennai, Tamil Nadu

Quantum Core Member

Sep 2024 – Present

- Researched 3 quantum algorithms, authored 2 literature surveys on quantum walks, and proposed problem statements.

### CENTINELS CYBERSECURITY CLUB

Chennai, Tamil Nadu

Web Dev Member

Mar 2024 – Dec 2024

- Explored web-security practices and conducted 2 digital awareness campaigns on phishing, privacy, and viruses.

## EXTRA CURRICULARS & ACHIEVEMENTS

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- Selected as one of 350 global winners of **Apple's** Swift Student Challenge 2026.
- **Hackathons & Competitions:** Led teams in iOS Bootcamp (**Top 100**), Smart India Hackathon - Internal Round (**Top 50**).
- **Courses:** C, C++ Foundations (**Udemy**), Unity Essentials Pathway (**Unity Learn**), MongoDB Developer Pathway.
- **Certifications:** **Oracle** Cloud Infrastructure Foundations Associate, **Oracle** Cloud Infrastructure Gen AI Professional, **Oracle** Cloud APEX Developer Professional, **SAP** Backend Developer ABAP Cloud, **MongoDB** Associate Developer, **NPTEL** Introduction to Database Systems.
- **Coding Achievements:** Completed **Advent of Code 2024** (25/25 days); 5 stars in **Problem Solving, C++**; 6 badges in **Credly**; Perfect **10.0 SGPA** in 3rd, 4th semesters.
- **AICTE Virtual Internships:** **Google** Android Developer, **AWS** Cloud Foundations, Machine Learning Foundations, Data Engineering, gaining **40+** hours of hands-on learning.

## SKILLS

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**Technical Skills:** Angular, Next.js, React, MongoDB, Swift, Java, C++, Python, TensorFlow, Git, AWS, SQL, Unity, Agile, Jira.

**Languages:** Fluent in English and Hindi.