

# Malavika Ajith

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Dedicated Computer Science Engineering undergraduate with strong foundations in software engineering, data systems, and applied machine learning. Experienced through internships and academic projects involving scalable systems, analytics, and internal tools.

## Education

### Amrita Vishwa Vidyapeetham, Amritapuri

Sept 2022 – July 2026(Expected)

B.Tech in Computer Science Engineering

India

- CGPA: 8.05 / 10.0
- Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Databases, Machine Learning, Big Data Analytics

## Skills

**Technical Skills:** Python, C++, JavaScript, HTML, CSS, Linux, Git, SQL, MongoDB, NumPy, Pandas, Tableau, AWS

**Certifications:** AWS Academy Graduate – Cloud Foundations (Amazon Web Services, 2026); Data Analytics Job Simulation – Deloitte Australia (Forage, 2025); Investment Banking Job Simulation – Citi (Forage, 2025); CompTIA Network+: Network Services & Data Center Architectures – Infosys Springboard (2025)

## Experience

### Paramount Solutions

Jan 2026 – present

Front-End Development Intern

Remote

- Supporting the development of user-facing web interfaces by implementing layouts and components under the guidance of senior engineers.
- Onboarding into the existing codebase, frontend architecture, and development workflows while contributing to UI development.

### Infospica

Aug 2024 – Aug 2024

Web Development Intern

India

- Developed responsive frontend components using WordPress and JavaScript for a hospital booking website.
- Integrated backend APIs and improved UI consistency across modules.

## Projects

### Cloud-Native Renewable Energy Marketplace (P2P Trading Platform)

July 2025– Oct 2025

- Designed and deployed a cloud-native peer-to-peer renewable energy trading platform on Google Cloud, validated through a six-month pilot with 5,000+ users.
- Built scalable backend services using Firebase, Firestore, and BigQuery to support real-time transactions with sub-150ms latency and high availability.
- Implemented AI-driven dynamic pricing and buyer-seller matching using demand, supply, and weather data to improve market efficiency.

### Secure RL-Based Adaptive Time Synchronization

2024

- Designed a reinforcement learning-based adaptive time synchronization mechanism for distributed systems using Python.
- Containerized system components using Docker to simulate and evaluate adversarial scenarios, achieving a 35–40% reduction in average clock drift compared to static synchronization baselines.

### Bias-Aware & Explainable Fake News Detection System

2025

- Preprocessed and analysed the WELFake dataset (~72K articles) using Pandas and NumPy for data cleaning, exploration, and feature preparation.
- Built an NLP classification pipeline using RoBERTa and integrated SHAP and LIME to analyse feature contributions and detect bias in model predictions.

## Hackathons & Workshops

- **Evolumin** – Lead the team and developed a healthcare web platform called HealthHope to centralize access to medical information and services.
- **Student Social Responsibility (SSR)** – Conducted a hands-on workshop on Web Development and Career Guidance for Grade 11 students at Lightland Higher Secondary School, Oachira.

## Extracurricular Activities

- Participated as an event coordinator in various college-level academic and cultural functions.
- Interests: Reading, cooking, travelling, dancing, and exploring new technologies.