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 hospita 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 May 2025 - Aug 2025

- 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 Apr 2025 - June 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.