Malavika Ajith

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Bachelor's degree in Computer Science with strong foundations in software engineering, data systems, and applied machine learning. Built and contributed to scalable systems, analytics pipelines, and internal tools through internships and academic projects.

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*

- Develop user-facing web interfaces by implementing layouts and reusable components using React under the guidance of senior engineers.
- Onboard into the existing codebase and frontend architecture while actively contributing to UI development and workflow improvements..

Infospica Aug 2024 – Aug 2024
Web Development Intern *India*

- Developed responsive front-end components using WordPress& JavaScript for hospital booking website.
- Collaborated with backend and design teams to implement feature updates and improve overall usability and maintainability.

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, improving market efficiency by 40% in simulation-based compared to static pricing baselines.

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 analyzed the WELFake dataset (˜72K articles) using Pandas, NumPy and built an NLP classification pipeline using RoBERTa with SHAP and LIME for explainability & bias detection.
- Worked in a Business Analyst role within a Scrum framework by translating problem statements into analytical requirements, defining acceptance criteria,aligning model outputs with stakeholder needs.

Hackathons & Workshops

- **Evolumin** – Led 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 academic and cultural college events.
- Interests: Reading, cooking, traveling, dancing, and exploring new technologies.