

Pavithraa S

Driven and ambitious CS undergrad seeking a transformative Summer 2026 internship to solve complex challenges and make a meaningful impact.

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Educational Qualifications

- Btech Computer Science Engineering | Amrita Vishwa Vidyapeetham, Coimbatore - 8.07/10
- Senior Secondary | Vidhyasagar International Public School, Tirupur - 88.2%
- Secondary | Vidhyasagar International Public School, Tirupur - 89.8%

Experience:

Junior Developer- Amrita School Of Computing, CORE Labs (Oct'23 -Jan'23)

- Engineered **reusable e-learning modules** on Cryptography for the Ministry of Education's Virtual Learning Initiative, improving student learning efficiency by utilizing React.js, Tailwind CSS, and Node.js.
- Collaborated in a cross-functional team, ensuring the seamless deployment of software with well-defined testing protocols and issue resolution strategies.

Key Projects:

Drip - AI based Ecommerce Website [GitHub](#)

React Js, OpenAI API, Web Services. Ongoing

- Developed an AI-driven eCommerce site for custom t-shirts, integrating image generation from user prompts and displaying them on 3D models for real-time customization and ordering.

Novel Movie Recommender System [GitHub](#)

Machine Learning, Natural Language Processing

- An end to end system with Movie poster retrieval API, serializes models with Pickle, and cloud deployed for easy user access, enhancing overall engagement.
- Integrated Python libraries - Scikit-learn, NLTK, and Streamlit for accurate, personalizing recommendations.

Campus Water Level Monitoring & Management System [GitHub](#)

ESP32, 4G Module, LoRa, Ultrasonic sensors, NEO-6M, React Native

- Engineered an IoT-powered water management system leveraging real-time sensor monitoring, GPS tracking, and data analytics to streamline water distribution, enhance operational efficiency, and minimize manual negligence in refilling while providing actionable insights on water consumption via a mobile app.

SocialSync - Social Media Simulation [GitHub](#)

Graph Theory, CLI, Python

- Architected a command-line interface social media simulation using graph theory to recommend friends dynamically, enhancing user interactions based on proximity and mutual interests and other features.

SOCIALEYES -Social Media Analysis Tool [GitHub](#)

- Engineered a social media analysis tool leveraging the Instagram Graph API and ML algorithms to extract actionable insights, empowering businesses, influencers, and marketers to optimize engagement and growth.

Achievements

INTEL AI Hackathon [GitHub](#)

- Key contributor in developing a smart helmet simulation for two-wheeler safety, detecting accidents using Intel® tools by processing panic words. Shortlisted for the pre-final round from 600+ teams at the INTEL AI Hackathon.

Technical Skills

- Programming Languages: Java, Python, JavaScript, C++, Go, Haskell, Scala, Prolog, Embedded C
- Frameworks & Tools: React.js, Tailwind CSS, Bootstrap, Figma, Scikit-learn, NLTK, Streamlit, SQL, RESTful, SOAP, Keil5, TIG Stack
- Cloud & Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure
- Technical Expertise: IoT, Embedded Systems, Machine Learning, Full Stack Development
- Professional Strengths: Effective and Persuasive Communication, Proactive Issue Resolution, Agile Execution, Strategic Risk Assessment, Adaptability, Seamless Cross-functional Collaboration, Proficient in Agile Methodologies.

Positions of Responsibilities

- Software Developer | iDEA Club, Amrita Vishwa Vidyapeetham
- Class Representative (elected third consecutive year)
- Head of Public Relations | Institution of Electronics and Telecommunication Engineers', Amrita Vishwa Vidyapeetham
- Core Member (PR Co-Head) | Anokha'24 (Annual Tech Event)