# EMILIN SANA K S

## MERN STACK DEVELOPER

**KOCHI, KERALA**

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## PROFILE

Information Technology undergraduate with hands-on experience in web development and software programming, and foundational exposure to Artificial Intelligence and computational problem-solving. Seeking a challenging technical internship to apply strong coding skills, analytical thinking, and a continuous-learning mindset in real-world projects.

## EDUCATION

2024 - present
**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**
**BTech Information Technology**
Semester: 4
GPA: 9.6 (S1) | 9.8 (S2)

2022-2024
HSE
Computer Science (99%)

## INTERNSHIP EXPERIENCE

**MathWorks**
**Intern – Computational Thinking & Artificial Intelligence** | June 2025

**Technologies:** MATLAB, Simulink, Artificial Intelligence, Predictive Modeling

- Applied **Artificial Intelligence workflow fundamentals** including data preparation, model development, simulation, and evaluation using **MATLAB**.
- Built and simulated **predictive and algorithmic models** to analyze system behavior and demonstrate **computational thinking principles**.
- Used **Simulink** for system modeling and visualization to interpret complex relationships and validate model performance.

## TECHNICAL SKILLS

**Programming Languages:**
C++, Java, JavaScript (ES6+)

**Frontend Development:**
React.js, HTML5, CSS3, Tailwind CSS

**Backend Development:**
Node.js, Express.js, Flask, PHP

**Database:**
MongoDB

**Version Control & Tools:**
Git, GitHub, MATLAB, Simulink

**Hardware & Embedded Systems:**
Arduino

## PROJECTS

### MCP Server – Real-Time Crypto Data API

**Tech Stack:** FastAPI, Python, CCXT, WebSockets, REST APIs, Async Programming, In-Memory Caching

- Designed and developed a **FastAPI-based backend server** to deliver **real-time cryptocurrency prices**, historical **OHLCV market data**, and **live WebSocket streams**.
- Integrated **CCXT** asynchronously to fetch and normalize exchange data with low-latency performance.
- Implemented **in-memory caching** and a **modular service architecture** to improve response time and maintainability.
- Wrote **automated tests** to validate API endpoints and ensure data reliability.

Github: https://github.com/Emilin24/MCPServer

### CodeMosaic – GitHub Contribution Graph Automation Tool

**Tech Stack:** JavaScript, GitHub APIs, Automation, Web Development

- Built a **web-based automation tool** that generates **commit schedules** to create **pixel-art patterns** on GitHub contribution graphs.
- Implemented logic to programmatically plan commits, demonstrating **algorithmic thinking** and **Git workflow automation**.
- Focused on **user-driven customization** and repeatable output generation.

Github: https://github.com/Emilin24/CodeMosaic

## CERTIFICATIONS

**COMPLETE FULL STACK WEB DEVELOPMENT BOOTCAMP**
Duration: 62 hours
Issued by: UDEMY
Issued on: Dec 2025

**INTRODUCTION TO ANDROID MOBILE APPLICATION DEVELOPMENT**
Grade: 91.87%
Isuued by: Meta
Issued on: April 2025

## HOBBIES & INTERESTS

- Technical Documentation & Writing: Creating structured documentation, READMEs, and technical explanations.
- Exploring open-source repositories