THIRILOCHAN KARTHI M S

SOFTWARE ENGINEER · ELECTRONICSANDCOMMUNICATION ENGINEEER · SATHYABAMA UNIVERSITY

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About Me

Programming Languages:

- Java, Python, C++, SQL, JavaScript, HTML.

Technical Skills:

- Operating Systems: Windows, Linux, Mac.
- Technologies & Tools: Spring Boot, REST APIs, Django, TensorFlow, Microservices, Power BI, Git, Firebase.
- Skills: Analytical, problem-solving, debugging, teamwork, SDLC proficiency, communication (English & Tamil).

Personal Interests:

- Passionate about chess, sports, and Empowering communities through open-source tech contribution .

Freelance Experience

Real-Time Microservices Based Order Management System

Spring Boot Backend Developer   Aug. 2024 – Oct. 2024

Overview: Developed a real-time order processing system using Spring Boot microservices and an event-driven architecture to enhance scalability, speed, and fault tolerance.

Key Achievements:

- Built a modular, event-driven system for low-latency order processing
- Enhanced processing speed by 20%, supported over Thousands orders per second, and improved system Resilience.
- Increased reliability by implementing robust error-handling and data consistency mechanisms

Project Experience

Banking Integrated and Finance Management Platform

FULL – STACK DEVELOPER   Jun. 2023 - Mar. 2024

Overview: Developed a finance management platform integrating multiple bank accounts for real-time insights and seamless fund transfers.

Technologies: Next.js, TypeScript, Appwrite, Dwolla, React Hook Form, TailwindCSS, Chart.js, ShadCN.

Project Highlights:

- Designed and implemented a secure authentication system to protect user data.
- Integrated Plaid for consolidated multi-bank account management.

AI-Powered Health Monitoring App

FULL – STACK DEVELOPER   Currently in Progress

Overview: Developed a comprehensive multi-platform app for collecting and analyzing health data from wearable devices, leveraging AI for health trend predictions and risk analysis.

Technologies: Flutter, Dart, Firebase, TensorFlow, Cryptography

Internship

Exposys Data Labs

SOFTWARE DEVELOPER   May. 2024 - Jun. 2024

- Engineered and integrated a Python-based encryption and decryption tool using AES and DES cryptographic algorithms to secure sensitive messages and files, providing robust protection against unauthorized access and Increasing data security by 85%.
- Developed a user-friendly interface to simplify the encryption and decryption process for both text and file formats, making the tool accessible to non-technical users. Incorporated strong security protocols that enhanced data privacy.

Certifications & Workshops

- GUVI – AI for India 2.0   Aug. 2024
- JPMorgan Chase & Co - Software Engineering Job Simulation   May. 2024 - Jun. 2024
- Coursera – Google IT Support   Oct. 2024
- Coursera – Google Advanced Analytics   Oct. 2024
- ISTE Student Chapter – Workshop for IoT Real Time Applications   Jul. 2024
- Secured Second Prize in the Code Craft Programming Competition In Sathyabama College

Education

Sathyabama University   *Chennai, 600119*

BACHELOR OF ELECTRONICS AND COMMUNICATION ENGINEERING   Aug. 2022 – Aug. 2026

- Enhancing Hardware skills by developing optimized software solutions for IoT devices.
- IEI (Institution of Engineers India) Student Chapter Member