

GEORGE OOMMEN VARGHESE

Software Engineer

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Summary

A highly adaptable software engineer with a disciplined approach to coding and debugging. Proficient in programming languages like C and Python. Well-versed in object-oriented programming concepts, data structures, and algorithms and have theoretical knowledge in the software development cycle, Agile methodologies, AI/ML fundamentals, RESTful APIs, and software testing. Familiarity with the Linux environment and IDEs. Possess a keen interest in learning new technologies and collaborating with experienced professionals to contribute to impactful projects.

Experience

TECHPLEMENT

Front End Developer Intern

02/2024 - 03/2024

- worked on the Frontend part of a full-fledged project - Clinic Management System.
- created a responsive web interface with multiple sections using HTML and CSS.
- used JavaScript to introduce Hamburger menu for navigation.

Projects

Misrouting attack on NoC by Hardware Trojan attack and its impact analysis

05/2023

The main objective of this project is to detect misrouting hardware trojan attacks, analyze their impact on NoC, and provide a mitigation measure. Experimental analysis shows that SIM with THANOS provides security against hardware trojans with minimal area and power overhead.

- In comparison with FortNoCs and P-Sec, SIM+THANOS reduces application execution time by 62.9% while adding only negligible 5.5% power and 2.15% area overhead.

IoT based paralysed patient health care system

05/2022

Engineered an IoT solution utilizing flex and pulse sensors to continuously track pulse rates and gestures of paralyzed patients; improved monitoring accuracy by 40%; and enabled real-time data transmission to healthcare providers.

- Implemented automatic notifications to preset emergency contacts in case of a critical event like low pulse rate.

Skills

Programming Languages: C • C++ • Python • SQL

Web Development: HTML • CSS • JavaScript

Platform: Gem5 • Anaconda

Soft Skills: Communication • Problem-solving • Analytical thinking

Languages: English • Malayalam

Education

SCMS School of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering

2019 - 2023

St Thomas Central School

Senior Secondary Education | Computer Science

2017 - 2019

Certifications

Python Course: Mastering the Essentials — SCALER

Fundamentals of Digital Marketing — Google

ChatGPT and AI Tools — Skill Nation