

Lissiyas Antony

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PERSONAL PROFILE

An active, motivated, and highly dynamic individual with exceptional working skills and a wide range of practical and theoretical experience in computer science, engineering, and computer architecture. Proficient in designing, building, and executing software applications that address complex and critical business needs.

EXPERIENCE

Indian Institute of Technology Guwahati, India. (IITG) - *Junior Research Fellow*

Feb 2023 - Dec 2023

- Developed an algorithm in python to enhance security in modern multi-core architectures, specifically focusing on encryption of the packets in Network-on-Chip (NoC).
- Conducted extensive performance testing and benchmarking to validate the algorithm's speed and efficiency, demonstrating its superiority over existing methods.
- Documented the algorithm's design, implementation, and performance results, contributing to technical reports for internal and external audiences.
- Knowledge of Gem5 architectural simulator and Benchmark Suites , Spec 2007, Splash2, Mediabench
- Developed and maintained web application using Python Django and proficient in designing RESTful APIs, with extensive knowledge in Django REST framework.
- Understanding of Django ORM and robust skills in databases such as PostgreSQL and MySQL
- Skilled in using GIT, showcasing a thorough understanding of version control systems.
- Expertise in React.js Bootstrap and vanilla JavaScript , along with HTML5 and CSS3 for responsive and interactive web designs.

Dayspring Technologies , Bangalore, India. - *Business Analyst*

JAN 2022 - JAN 2023

- Conducted in-depth data analysis of website traffic, customer behavior, and sales metrics using Google Analytics, resulting in a 10% increase in conversion rates
- Developed and maintained regular reports and dashboards to track key performance indicators (KPIs), providing actionable insights to senior management and driving data-driven decision-making.

- Collaborated with cross-functional teams to develop detailed business requirements, use cases, and functional specifications for system enhancements and new product development.
- Performed administration, monitoring, tuning, and support activities for databases in the production environment, ensuring reliability and optimal query execution times.
- Proactively identified and resolved complex problems, providing timely solutions to maintain database functionality.
- Familiarity with version control systems (e.g., Git), code review processes, and continuous integration/continuous deployment (CI/CD) pipelines.
- Analyzed large datasets using SQL and Excel to identify trends, patterns, and key insights, providing actionable recommendations to improve business performance.
- Worked in Creating complex Functions and Views by joining multiple Tables as per the Customer Requirements and Showcased expertise in finely tuning sophisticated PostgreSQL queries to optimize performance and enhance overall database efficiency.
- Assisted in the development of training materials and conducted training sessions for end-users to ensure effective utilization of database systems.

EDUCATION

Rajiv Gandhi Institute Of Technology, Kottayam, India -
Master Of Technology In Computer Science And Engineering
 AUG 2019 - JULY 2021

Younus College Of Engineering, Thalachira, Kottarakara, India -
Bachelor Of Technology In Computer Science And Engineering
 AUG 2014 - AUG 2018

TECHNICAL SKILLS

- HTML, CSS, Bootstrap, Django, Flask
- Python, C++, Go, PostgreSQL, MySQL, R, JavaScript, REST API
- Figma, Gemini, Tableau
- MS excel, MS Power Point, SQL Server, DBeaver
- Operating System: Windows, Linux.

PUBLICATIONS

- Securing Surveillance Data Using Incremental Cryptography, SoCPaR 2021. Lecture Notes in Networks and Systems, vol 417. Springer, Cham.
https://doi.org/10.1007/978-3-030-96302-6_20
- Exploring Trustable Paths in Network-on-Chip for Low-Slack Packets, 20th International SoC Conference (ISOCC 2023), South Korea (Presented)