PRINSTON COELHO

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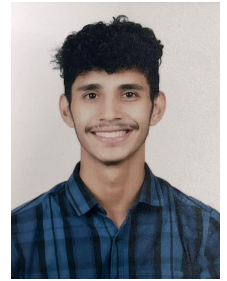
OBJECTIVE

Final-year Information Science and Engineering student aspiring to become a System Reliability Engineer. Focused on building and maintaining reliable, high-performance systems while developing strong problem-solving skills in a dynamic work environment. Eager to contribute fresh perspectives and a strong willingness to learn in a collaborative team setting.

EDUCATION

Bachelor of Technology in Information Science Engineering · 2022 - Expected 2026
NMAM Institute of Technology, Nitte. CGPA : 7.85

Senior Secondary Education (10+2) · 2022
St. Aloysius PU College, Mangalore - Karnataka State Board, 91.33%

Secondary Education · 2020
Lourdes Central School, Mangalore - CBSE, 90.16%

SKILLS AND INTERESTS

Technical Skills	C, C++, Python, HTML, CSS, Computer Networks, Operating System Fundamentals, Cryptography, Cloud Computing , Linux Basics, Knowledge of Hardware Components
Soft Skills	Teamwork, Adaptability, Problem-Solving, Communication, Customer-Centric Mindset

PROJECTS

Autism Detection using AI Driven Facial Analysis and Chatbot Integration · Ongoing
Major Project

Working on an AI-based system to support early detection of Autism Spectrum Disorder by analyzing facial expressions using deep learning (CNNs) and integrating a chatbot for parental guidance. The system leverages real-time image processing and conversational AI to provide accessible, non-invasive diagnostic support.

TCP Client-Server Chat Application
Personal Project

Developed a simple TCP client-server chat application in Python that enables two-way text communication over a network. Demonstrated understanding of socket programming, TCP connections, and basic client-server networking concepts. The project supports communication on the same machine or across devices on a local network.

Cryptographic Key Management System
Personal Project

Designed and implemented a robust key management system supporting AES (symmetric), RSA (asymmetric), and Diffie-Hellman (key exchange) cryptographic algorithms. Developed secure encryption/decryption workflows, integrated AES-CBC with PKCS7 padding, RSA with PKCS1v15, and included key revocation and secure storage features. Ensured best practices in cryptographic key generation, encoding, and secure randomization using Python's cryptography library.

CERTIFICATIONS

Digital Transformation with Google Cloud - Google Cloud
Data Security - Cisco
Introduction to Networking and Cloud Computing - Microsoft

POSITION OF RESPONSIBILITY

Western Music Head of the College Music Club - Stereo Club
Social Media Head of the College Music Club - Stereo Club

EXTRA-CURRICULAR ACTIVITIES

Grade 6 Trinity College London certified Electronic Keyboardist
Keyboardist of the College Band - DISK25 (3x Battle of Bands Winners)
Represented the College Basketball Team

LANGUAGES

English, Hindi, Kannada, Konkani, Tulu