AARON THOMAS BLESSEN

Pathanamthitta, Kerala

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Summary

Passionate and driven Computer Science undergraduate with a strong foundation in software technologies, GATE qualification, and experience as the President of the Coding Club. Proficient in web development, Artificial Intelligence (AI), and Machine Learning (ML), with hands-on experience building intelligent systems. Deeply interested in applying AI/ML techniques and creating dynamic, user-friendly applications.

Education

Saintgits College Of Engineering — **2021 - 2025**
Bachelor of Technology in Computer Science (CGPA 8.30/10) — *Kottayam, Kerala, India*

Saint Antony's Public School — **2019 - 2021**
Higher Secondary Education (Percentage 91.2%) — *Kottayam, Kerala, India*

Relevant Coursework

- Data Structures
- Software Development
- Algorithms
- Database Design
- Machine Learning
- Object Oriented Programming

Technical Skills

Languages: Python, C
Operating Systems: Windows, Linux
Database: SQL, Firebase
Frameworks and tools: React.js, OpenCV, Git

Internship

ISRO – Liquid Propulsion Systems Centre (LPSC) — **Oct 2024 – Present**
Intern – AI/ML — *Thiruvananthapuram*

- Working on developing a Retrieval-Augmented Generation (RAG) system for ISRO using LLaMA as the core LLM.
- Tasked with identifying the most suitable embedding models and embedding types to optimize the system's knowledge retrieval capabilities.

Intel Corporation — **May 2024 - July 2024**
Intel Unnati Industrial Trainee — *Bangalore*

- Developed CodeCrypt, a cryptographic simulation tool using OpenSSL and C, supporting RSA, AES, DES, and SHA algorithms for encrypting text, files, audio, images, and videos.
- Managed backend and integration with Firebase and contributed to the project documentation.

Projects

Cryptic Canvas | Academic Project | *Python, Streamlit, OpenCV* — **2024**

- Developed a tool that enables users to add vibrant color to images and videos effortlessly.
- Cryptic Canvas is capable of colorizing black-and-white photos and enhancing the colors in existing media. Built using Python, Streamlit for the interface, and OpenCV for image and video processing.

Networkk | Academic | *React, Firebase, JavaScript* — **2024**

- Developed Networkk, a digital marketplace connecting individuals with local skilled workers, providing a seamless platform for booking professional services.
- Built comprehensive interfaces for customers to search and schedule services, and for service providers to manage bookings, view reviews, and handle ratings.

Achievements

GATE Qualified CS | Academic | *Indian Institute of Science (IISc)* — **2024**

- Gate Score: 511 Gate Rank: 5101

International Conference on Smart Cyber Physical Systems | Best Paper Award | *Christ University (Delhi)* — **2024**

- Data Visualization of Accident Blackspots on Indian Roads-A Case Study on Bangalore and Chennai

HackVerse | Hackathon | *First Runner-up - SRM Institute of Science and Technology, Chennai* — **2024**

- Collaborated on building a DApp called Skill Sync.
- Skill Sync aims to connect individuals with skills verified using the Zero-Knowledge Protocol to find suitable hackathon partners efficiently.