

# Alen Varghese

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## EDUCATION

Amrita Vishwa Vidyapeetham **Kochi, India**

**Masters in Computer Application** (GPA: 8.6) *Graduation Date: June 2025*

Kristu Jyoti College of Management and Technology **Kottayam, India**

**Bachelor of Computer Application** (GPA: 8.17) *Graduation Date: June 2023*

- Awards: Chavara Scholarship

## INTERNSHIPS

LCC Computer Education, Kochi **Kochi, India**

**Python Intern** *Jan 2023 - Feb 2023*

- Built a web-based platform "Civil Registry" using Python and Django during a one-month internship at LCC Computer Education, Kochi, enabling users to apply online for government documents like passports, licenses, and birth certificates.
- Gained hands-on experience in full-stack web development, strengthening Python skills and applying Django in a real-world civic application.

STEAM Troops Innovation Labs Pvt. Ltd. **Chennai, India (Remote)**

**UI/UX Designer** *Mar 2022 - Jun 2022*

- Collaborated with developers, clients, and stakeholders to build a Content Aggregator Platform (CAP), aligning technical features with user needs and streamlining content delivery across platforms.
- Contributed to cross-functional project planning and communication, improving development efficiency and stakeholder satisfaction through clear requirement gathering and iterative feedback.

## CERTIFICATIONS

**Google Cloud Cybersecurity Professional Certificate**

*Google Cloud* *June 2025*

- 5 course series dealing with Management, Threat Analysis and Detection & explored 75% of GCP Platform.

**Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate**

*Oracle* *Aug 2024*

- Demonstrated understanding of AI, ML, generative AI, and related Oracle Cloud services and explored applications of ML learning, deep learning which supports development of a business.

**Python for Data Science**

*NPTEL and Indian Institute of Technology Madras* *Feb 2024*

- Completed coursework covering Python programming fundamentals and data science libraries for data analysis.

## PROJECTS

**Civil Registry**

*Web-based system for Indian citizens to apply for government records and certificates* **Duration: 3 Months.**

- Developed a full-stack web application enabling citizens to apply, pay for, and track government certificates such as passport, driving license, voter ID, ration card, birth, death, and marriage certificates.
- Designed and implemented role-based access: Admins managed authorities and feedback, Customers handled registrations and application processes, Registrars issued and uploaded certificates with service charges.
- Enhanced operational efficiency by digitizing government application processes, reducing physical visits and wait times for citizens.

**Image Encryption Decryption**

*Python application with GUI for encrypting and decrypting JPG images using XOR algorithm* **Duration: 2 weeks**

- Encrypted sensitive JPG images using an XOR-based encryption algorithm within a Python-built desktop GUI application, showcasing the ability to translate encryption concepts into practical application development and secure data handling.
- Implemented XOR-based encryption algorithm to secure image data, demonstrating fundamental cryptography concepts.
- Applied file I/O operations to read, encrypt, and save image files securely.
- Enhanced understanding of cybersecurity fundamentals and GUI application development in Python.

## PUBLICATION

*Prediction of 3rd wave of Covid using AI*

*IJARET, Volume 8 · Aug 18, 2021*

- Conducted a data-driven study leveraging for AI techniques to forecast the timing and severity of the third COVID-19 wave..
- Validated predictive models that led to actionable insights, informing healthcare policymakers on optimal resource allocation, thus would help hospital overload by 22% during peak pandemic surges.

## SKILLS & INTERESTS

**Skills:** C, C++, Python, Java | HTML, CSS, JavaScript | Figma, Adobe XD | MySQL | Git, GitHub | Power BI | Windows, Ubuntu, Kali

**Interests:** Reading novels | Long drives | Watching movies | Editing