

ALEX VARGHESE

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DOB – 31/07/2003

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SKILLS & INTERESTS

- **Technical Skills:** Python, C++, C, Java, MySQL, MongoDB, NumPy, Pandas, Matplotlib, React, JavaScript, FastAPI
- **Soft Skills:** Leadership, Communication, Critical Thinking, Decision Making, Problem Solving, Mentoring
- **Interests:** Machine Learning, Data Analysis, Prompt Engineering, System Design

EDUCATION

- **Govt. Model Engineering College** 2026
KTU, B.Tech in Computer Science Engineering 9.3
- **Naipunnaya Public School** 2022
CBSE, 12th 97.6%
- **Naipunnaya Public School** 2020
CBSE, 10th 98%

PROJECTS

- **Concertify** **Team Size: 4**
Backend Developer
Technologies Used: React, CSS, JavaScript, PostgreSQL, Supabase
Developed the backend of Concertify, a concert booking web app, using Supabase and PostgreSQL. Implemented user authentication and built APIs for event listings and bookings, ensuring instant database updates and seamless sync with the React frontend. **1 Week**
- **Math-Solver** **Team Size: 4**
Software Developer
Technologies Used: Python, Flask, Google Vision API, SymPy, HTML, CSS, JavaScript
Worked on image processing, mathematical computation and frontend integration domains of this web application. Integrated Google Vision API for text extraction, used SymPy to solve problems and contributed to the frontend features such as image upload and result display. **2 Weeks**
- **Streamify** **Team Size: 2**
Software Engineer
Technologies Used: React, JavaScript, Tailwind CSS, DaisyUI, TanStack Query, MongoDB, Stream Chat API, Render
Led backend development of Streamify, a real-time video chat platform, integrating Stream Chat API and MongoDB to enable seamless messaging, video calls, and robust data management. Deployed on Render and contributed to the React frontend to enhance user experience. **1 Week**
- **Spectrum** **Team Size: 1**
Full-Stack Developer
Technologies Used: Python, FastAPI, spaCy, Firebase, React, Tailwind CSS, JavaScript
Spectrum is an intelligent resume analysis platform that leverages a containerised Python API and a modern React frontend to analyse and score resumes against job descriptions, delivering scannable, data-driven insights to strategically enhance applications. **1 Week**
- **Synapse** **Team Size: 1**
ML Engineer
Technologies Used: Python, Flask, Jupyter Notebook, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
Engineered Synapse, a stroke risk prediction tool using Logistic Regression, SMOTE and EDA, implementing the complete ML pipeline with a clean demo UI for real-time risk evaluation and high predictive accuracy. **1 Week**

COURSES & CERTIFICATIONS

- Obtained Proficiency in **Python AI and ML** provided by **Srishti Innovative**.
- Successfully Completed a course on **Data Analysis using Microsoft Excel** provided by **Coursera**.
- Achieved certification in **Microsoft Copilot for Productivity** provided by **Microsoft and LinkedIn Learning**.

KEY POSITIONS

- **Training Cell Coordinator**, Govt. Model Engineering College.

ACHIEVEMENTS & ACTIVITIES

- Attended **Technopreneur 2023**, an entrepreneurial summit organised by **IEDC MEC**.
- Participated in **MAGIC 2.0 2023**, an overnight hackathon organised by **IEEE MEC SB**.
- Took part in **TEDx MEC 2024**, a talk session conducted by **TEDx MEC**.
- Attended **FinNext 2023**, a finance summit organised by **Excel 2023**, the annual techno-managerial fest of **Govt. Model Engineering College**.
- **Hobbies:** Music, Football, Stamp Collection

REFERENCES

- **Prof. Dr. Mini M G**, Principal, Govt. Model Engineering College, Kochi, Email ID: principal@mec.ac.in
- **Prof. Dr. Binu V P**, HOD, Computer Science Engineering, Govt. Model Engineering College, Kochi, Email ID: binuvp@mec.ac.in