

Samuel Alexander

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<https://github.com/SamuelAlex013>

ACADEMIC DETAILS

Year	Degree/Exam	Institute
2022 - Present	B.TECH Computer Science	Graphic Era Hill University
2022	12 th I.S.C	Carman School
2020	10 th I.C.S.E	Carman School

PROJECTS

- **AI Booking Agent < FastAPI, LangChain, Streamlit >** [\[GITHUB\]](#) [\[LIVE DEMO\]](#) (June, 2025 - July, 2025)
Developed an intelligent calendar assistant using LangChain agents and Google Calendar API for natural language event management. Built with FastAPI backend featuring tool-based architecture for calendar operations, event creation, and availability checking. Deployed on Railway with Streamlit frontend, enabling users to manage schedules through conversational AI interactions with real-time calendar synchronization.
- **DB Manager < Nextjs, FastAPI, SQLAlchemy >** [\[GITHUB\]](#) (May, 2025 - June, 2025)
Developed a secure, full-stack web application for personal data management with Clerk authentication and complete CRUD operations. Built using Next.js/TypeScript frontend and FastAPI backend with SQLAlchemy ORM, featuring JWT-based authentication, protected API endpoints, and user-scoped data access. Supports structured and semi-structured data storage with JSON handling, real-time synchronization, and responsive design.
- **Stock Market prediction < TensorFlow, keras >** [\[GITHUB\]](#) (Nov, 2024 - Jan, 2025)
Developed a stock price prediction model using Python, Scikit-learn implementing LSTM, GRU and biLSTM for accurate price forecasting. This project involved extensive data preprocessing, feature engineering, and model tuning to enhance prediction accuracy. Created a model capable of predicting stock prices, providing valuable insights into stock trends for informed decision-making.
- **E-commerce Web Application < express.js, MongoDB, React >** [\[GITHUB\]](#) (Dec, 2023 - Jan, 2024)
Developed a full-stack e-commerce web application using Express.js, Node.js, and MongoDB. Implemented features such as user authentication, product catalog browsing, shopping cart functionality, and order processing. Emphasized modular code structure, secure session handling, and responsive design principles.
- **Mini OS < GRUB, C, Assembly >** [\[GITHUB\]](#) (Mar, 2025 - May, 2025)
Developed a custom mini operating system using C and Assembly language, capable of booting directly from a USB drive. This OS features a lightweight command-line interface that allows users to execute commands in real time. Designed and implemented essential low-level drivers. The system includes core OS functionalities such as interrupt handling, basic memory management, and hardware-level task execution.

TECNICAL SKILLS

- **Languages** : python, C, C++, java, javascript, typescript
- **Front-end** : html, css, React, Nextjs
- **Back-end** : nodejs, expressjs, Flask, FastAPI
- **Database** : MongoDB, MySql
- **Tools and Framework** : Numpy, Pandas, GitHub, git, RestAPI
- **Machine learning tools** : Scikit-learn, Pandas, Numpy, Data Preprocessing, Feature Engineering
- **Deep learning tools** : TensorFlow, Keras, LangChain, Neural Networks (LSTM, GRU, biLSTM)

SCHOLASTIC ACHIEVEMENTS

- Won inter-school chess competitions multiple times.
- Solved over 150+ questions in leetcode coding platform.

POSITIONS OF RESPONSIBILITY

- Led as the leader during many hackathons.
- Appointed as a CR of the class.

EXTRA-CURRICULAR ACTIVITIES

- Actively participated in debates, quizzes, and other events during school.
- Participated in 24-hour Hackathon organized in college in 2022 and 2023 respectively.