SYNCLAIR SAMSON

Karachi, Pakistan

📞 +92 336 8317279 ✉ synclair$_s$amson@hotmail.com in Synclair Samson ○ Synclair1

EDUCATION

Habib University **Exp 2025**
BSc Honors - Computer Science *Karachi, Pakistan*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computational
- Intelligence
- Database Management System (DBMS)
- Artificial Intelligence
- OOP Concepts
- Web Development
- Android Development
- Computational Social Sciences
- Compiler Development

PROJECTS

InterKnow: Chat and Voice based AI assistant ⬀ | Machine Learning, Mobile Development - MERN stack2

- Uses both English and Urdu for the Pakistani demographic (specifically the elderly.
- UI built with research on specifically what the elderly require and prefer for an easy to use app.
- Trained on a self made and internet gathered dataset for responses and for the project demonstration limited tasks were implemented.

Evolving user-desired patterns in Conway's Game of Life ⬀ | MERN stack **2025**

- The algorithm can be used to model the evolution of species and ecological communities.
- It uses the fundamentals and self researched patterns to implement the EA to form self replicating patterns in Conways Game of Life.

Analysis of packet filtering of skip lists vs splay trees ⬀ | Python Based Web Project **2023**

- The project involved implementing and comparing packet filtering performance using two advanced data structures
- A front-end was developed to visually display the results of the packet filtering tests, providing a clear comparison of the performance of both data structures through interactive graph analysis.
- This project involved developing our own methods of implementing the data structures, then comparing various methods such as their efficiency like time, complexity etcetera in final report paper for the project report.

Previous Experience

IBEX ⬀ **02 2024 – 11 2024**
Patient Recruitment Specialist *Karachi, Pakistan*

- Recruiting patients for vaccination drives for companies like Pifzer, Moderna etc.
- Managed time and quota based requirements to gather patients for the drive.
- Conducted qualitative interviews to assess patient medical health, history and criterion for the vaccinaton.

TECHNICAL SKILLS

Languages: Python, Java, C, C, C++, JavaScript, SQL, NoSQL, Kotlin, Typescript
Developer Tools: VS Code, Android Studio, MongoDB, MySQL, Docker, Flask
Technologies/Frameworks: GitHub, ReactJS, NextJS, NodeJS, ExpressJS, Git, Mongo, Flutter

EXTRACURRICULAR

Habib University Debte Union ⬀ **2023**
Director of Security for HUMUN 2023 *Karachi*