

Kanes Rakeshan

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Jaffna, Northern Province, Sri Lanka

OBJECTIVE

I'm a Computer Science and Engineering undergraduate seeking opportunities to apply technical knowledge, problem-solving skills, and leadership experience in real-world projects. Eager to contribute to innovative solutions while continuously learning and growing in a dynamic team environment.

EDUCATION

- **University Of Moratuwa** 04 Mar 2024 - 2028
BSc. (Hons) in Engineering Moratuwa, Sri Lanka
CGPA: 3.69
 - Semester 01 - SGPA: 3.75/4.00
 - Semester 02 - SGPA: 3.65/4.00
- **J/St. Henry's College, Ilavalai** Jan 2023
GCE (Advanced Level) - Physical Science Jaffna, Sri Lanka
 - Result: 3A
 - Z-score : 2.1167 | District Rank : 43 | Island Rank : 768
- **J/St. Henry's College, Ilavalai** Dec 2019
GCE (Ordinary Level) Jaffna, Sri Lanka
 - Result: 8A,B

PROJECTS

- **Nano-processor Project: Semester-02 CS1050 module final project** Jan 2025 - Jun 2025
Tools: VHDL, Xilinx Vivado, Basys3 FPGA, Git [\[G\]](#)
 - Developed a 16-bit nanoprocessor architecture with modular components (ALU, instruction decoder, register file, memory, clock divider) for instruction execution
 - Implemented VHDL testbenches for simulation and debugging, achieving full functional verification before hardware deployment
 - Created a 7-segment display output system on the Basys3 board, ensuring real-time visualization of processor outputs
 - Applied FPGA synthesis, implementation, and timing analysis to optimize design, resulting in a working hardware demo on Basys3
- **Banking System: Terminal-based banking application with admin & customer operations** Apr 2025 - Jul 2025
Tools: Java, CSV file storage, OOP, Exception handling, Git [\[G\]](#)
 - Developed a modular Java banking system enabling account creation, deposits, withdrawals, and transaction tracking, achieving reliable user operations
 - Implemented robust exception handling to validate data integrity and ensure system stability
 - Developed CSV file-based persistence to manage data storage without a database, facilitating portability and simplicity
- **Rclone-UI: GUI for managing file transfers via Rclone** Aug 2025
Tools: Python, PyGObject/GTK (GUI), AppImage packaging, Rclone CLI integration, Git [\[G\]](#)
 - Developed a Python GTK-based desktop GUI client wrapping the Rclone CLI, simplifying remote storage operations via an intuitive interface
 - Implemented AppImage packaging to deliver a portable, Linux-compatible executable for end-users
 - Integrated file transfer management features including download, add remotes
 - Designed GUI assets and configuration files to ensure smooth installation and execution on Linux desktops

SKILLS

- **Programming Languages:** Python, Java, C, C++, Golang, JavaScript, SQL
- **Web Technologies:** Astro, Tailwind
- **Database Systems:** MySQL
- **DevOps & Version Control:** Git, GitHub
- **Languages:** Tamil (Native), English (Intermediate)

HONORS AND AWARDS

- **National Bible Quiz Written Examination**

The Department of Christian Religious Affairs

- Distinction pass

2019



LEADERSHIP EXPERIENCE

- **Prefect**

2018 - 2021

J/St. Henry's College, Ilavalai



- Key Responsibility: Maintain discipline across the school premises and acted as a mediator between students and college staff.
- Organized blood donation campaign

- **Head-Prefect**

2022 - 2023

J/St. Henry's College, Ilavalai

- Key Responsibility: Oversaw and coordinated a team of 40+ prefects, led leadership meetings, assigned responsibilities, and served as the primary student representative to the school administration.

VOLUNTEER EXPERIENCE

- **Cadet**

08-16 Jul 2018

National Cadet Corps



- Participated in the Annual Assessment Camp Army Wing Boys program organized by the Sri Lankan Army
- Skills developed: Squad drill, Map reading, First Aid & personal hygiene, Firing, Positive thinking, Confidence & team building, Leadership & management

OTHER EXPERIENCE

- **Future Leaders Conference - season 10**

18-22 Dec 2018

Sri Lanka Unites



- Selected to represent school at a nationally recognized youth leadership summit focused on reconciliation, peace-building, and responsible citizenship.
- Gained hands-on training in leadership, conflict resolution, and cross-cultural collaboration alongside youth leaders from across Sri Lanka.