SUHAIMA AHMAD

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EDUCATION

Bachelor of Computer Science, University of Toronto .... Expected 2028
Relevant Coursework: Operating Systems, Software Tools and Systems, Data Structures, Agorithm Design.
CGPA: 3.77/4.00

SKILLS

Technical Skills	Git/Github, UNIX/Linux, Vscode, React
Languages	C, Python, Java, HTML/CSS, Javascript, Risc-v
Soft Skills	Adaptability, Teamwork, Leadership, Accountability

EXPERIENCE

Teaching Assistant — Aug 2025 - Present
University of Toronto — *Mississauga, ON*

- Supported instruction for **CSC148** (Introduction to Computer Science) for **160** students, reinforcing programming fundamentals, object-oriented design and algorithmic problem solving.
- Led weekly tutorials for **MAT135/MAT136** for undergraduate students, reinforcing concepts in calculus.
- Marked exams, delivering consistent, detailed feedback and adhering to grading rubrics and deadlines.

Web3 Security Data Analyst — Jul 2024 - Aug 2024
Extern — *United States (remote)*

- Analyzed blockchain security datasets to identify vulnerabilities, trends, and anomalous activity using **Python** and **Excel**.
- Conducted research on smart contracts, applying statistical models and data visualization to detect risks.
- Developed **automated scripts** to extract, clean, and visualize large datasets, reducing manual effort.

PROJECTS

Food Predictor. Developed a supervised machine learning model to predict food preferences from structured survey data, performing feature engineering, data preprocessing, and model evaluation. Achieved **84%** accuracy on the held out test set using **Python**, **NumPy**, and **pandas**.

Sokoban. Implemented a Sokoban game in **RISC-V assembly**, featuring player movement, collision detection, and dynamic board rendering. Designed support for multiple players, a ranked scoreboard, and an infinite replay system by managing game state directly in memory. Demonstrated **low-level systems** programming, **heap management**, and control-flow design.

Kernel Syscall Interceptor. Developed a **Linux** kernel module in **C** to intercept system calls via a custom syscall, enabling PID-specific process monitoring. Implemented **synchronization**, safe kernel–user communication, and logged syscall activity for targeted processes. Gained experience with **kernel space vs user space**, and **concurrency**.

EXTRA-CURRICULAR ACTIVITIES

- Duke of Edinburgh Award (Gold Level) - Completed extensive commitments in community service, skill development, physical activity, and expedition planning, demonstrating long term goal setting, leadership, and time management.