

# Anas Alhadi

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## EDUCATION

### Dalhousie University

Bachelor of Computer Science with Honours - GPA: 4.09/4.3

Halifax, NS

Jan. 2021 – May. 2025

## EXPERIENCE

### Research Assistant

Dalhousie University

April. 2024 – May. 2025

Halifax, NS

- Worked under Dr. Samer Lahoud, an IoT networking expert on improving metadata compression in IoT packets.
- Developed the ability to effectively discern the contents of documentations, RFC standards and research papers.

### Undergraduate Teaching Assistant

Dalhousie University

Aug. 2023 – Dec. 2024

Halifax, NS

- Managed 400+ student's git repositories incorporating the use of bash scripts in the process.
- Instructed on Systems topics including C programming, basic Computer Architecture and UNIX operations.
- Provided in-person guidance to students, ensuring clarity and comprehensiveness.

## PROJECTS

### KeBaB | C++

Aug. 2024 – Present

- Paper Title: K-mer based breaking for finding SMEMs.
- Collaborated with experts to implement improved algorithms used in the identification of certain patterns in the human genome.
- Assisted in the Testing and Debugging of a relatively large code base.
- Evaluated the performance of our implementation.

Paper   Code

### Dynamic Context Updating in SCHC | Python3

Jan. 2025 – Present

- Thesis Title: Dynamic Context Updating in SCHC.
- Completed and Defended a study on a novel, dynamic rule updating algorithm for an IoT based compression protocol (SCHC).
- Built a prototype of the implementation for the updating algorithm.
- Built an emulation testbed that was used to evaluate the performance of said algorithm.

Paper   Code

### Advanced Data Structures | GoLang, Python3

Aug. 2023 – April. 2024

- Collaborated with a classmate to implement and analyze non trivial data structures.
- Implemented: Splay Trees, Van Emde Boas trees.
- Evaluated performance by stress testing the Data structures and compared results against the theoretical limits.

Contact   Code

## TECHNICAL SKILLS

**Languages:** C, C++, Java, Python3, MySQL, GoLang, JavaScript

**Developer Tools:** Scapy, Git, Docker, WireShark, Makefile, GDB, RiotOS

**Frameworks:** Flask, Espresso, JUnit, Nodejs

**Markup Languages:** LaTeX, Markdown, HTML, CSS

## AWARDS

**Sexton Scholar:** Awarded each semester to students with a 3.85 or higher GPA on a full course load, achieved 6 times.

**Dean's List:** Awarded each semester to students with a term GPA between 3.4 and 3.84 while on a full course load, achieved twice.

**Oman MoHE Scholarship:** Awarded to the top performing highschool students in the country, includes 4 years of paid university tuition.