KEN **HILTON**

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Third-year **Computer Engineering** student. Among the **top 50** most credited security contributors on GitHub in September 2021. Programming for **over 13 years**. Aiming to amass industry experience.

EXPERIENCE

MAY 2024 – AUGUST 2025 | TORONTO, ON
SOFTWARE ENGINEER – PEY INTERN, INTEL/ALTERA
Developing and testing platform firmware resilience soft IP to **protect firmware and hardware** from damage/attack and **demonstrate product capabilities**. Creating and continuously integrating bare metal drivers to **provide a reference design for customers**.

MAY 2022 – MARCH 2023 | CALIFORNIA, USA (REMOTE); TORONTO, ON (REMOTE)
SOFTWARE ENGINEER, CANOO
Developed tooling to streamline industrial processes, including a PySide/Qt GUI for using UDS (DoCAN/DoIP) to flash vehicle firmware, and a Python/Flask web application for end-of-line manufacturing, enabling assembled vehicles to be ready for **shipping to the consumer**.

JANUARY 2017 – PRESENT | REMOTE
ADMINISTRATOR & FULL STACK SOFTWARE ENGINEER, SCRATCH WIKI
Oversee, develop, and contribute to the Scratch Wiki, a family of comprehensive, collaboratively-written wikis documenting the Scratch programming language and its surrounding phenomena, maintaining relations with the Scratch Foundation, and educating **>100k users per month**.

EDUCATION

SEPTEMBER 2021 – MAY 2026 (PROJECTED)
BASC., COMPUTER ENGINEERING + PEY CO-OP, UNIVERSITY OF TORONTO
3.79 cGPA; Dean's Honours List every semester. Relevant courses: Computer Fundamentals (C), Software Design & Communication (C++), Computer Organization (ARM assembly + Verilog), etc.

SKILLS

- Up to **13 years of experience** in Python, PHP, SQL, HTML/CSS, JavaScript/React, C, C++, C#, TypeScript/Angular, Java, Verilog.
- Strong grasp of **Git and version control**; good Git-fu.
- **Algorithms and data structures**, including complexity and O-notation, linked lists, etc.
- **Agile/DevOps** practices, including continuous integration, Jira, stories, etc.
- Ability to learn new languages lightning fast.

AWARDS & CERTIFICATIONS

- Qualified for the Ontario Engineering Competition in Programming by winning the University of Toronto Engineering Kompetition in the corresponding category, in both 2022 and 2023.
- Gold Medal, Young IT Ambassador Award of the Hong Kong Association for Computer Education.
- Licensed amateur radio operator in the US (as W3KEN), Canada (as VA3BYX), and HK (as VR2XOZ).