

# Ken Hilton

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## Skills

### Programming Languages

Up to 11 years of experience in Python, HTML, CSS, JavaScript (including browsers and the DOM), C, C#, PHP, SQL, C++, TypeScript, and Elixir.

### Technical Skills

XAMP (Linux, Apache, MySQL, PHP) and low-level HTTP, including SSL and the TCP/IP stack; Git and version control; computer science concepts, including data structures, algorithms, object-oriented programming, and so on; DevOps workflows, including Jira, Kanban, sprints, epics, stories, and estimation; and writing clean, readable, and efficient code, including testing and documentation.

### Soft Skills

Native/fluent in spoken and written English and Chinese (Cantonese and Mandarin); excellent verbal and written communication skills in global environments (worked in an international virtual team for several years, interned in Germany, and lived and studied in Hong Kong and Toronto); organizational awareness; strong love and passion for learning, knowledge sharing, and multi-perspective problem-solving.

## Experience

### Software Engineer | [Canoo](#) | May 2022 – August 2022 (Intern)/September 2022 – present (Contractor)

Develop tooling to streamline industrial processes, such as a PySide/Qt user interface for flashing firmware, and a Python/Flask web application for end-of-line manufacturing, learning automotive knowledge such as UDS (DoCAN, DoIP), ECUs, and over-the-air updates, plus gaining experience in a corporate environment.

### Administrator and Full Stack Software Engineer | [Scratch Wiki](#) | January 2017 – present

Oversee, develop, and contribute to a family of comprehensive, collaboratively-written wikis in 8 different languages, which document the [Scratch programming language](#) and its surrounding phenomena, requiring leadership and interpersonal skills as well as technical skills in PHP, SQL, HTML, JS, and CSS.

### Coding Instructor | [Zebra Robotics \(Danforth\)](#) | December 2021 – April 2022

Taught courses on Python (including game design) and web development (HTML and JavaScript) to students in grades 1-12, covering I/O, data types, control flow, functions, OOP, APIs, jQuery, and more.

### Participant | [NewHacks 2021](#) | Toronto

Created [Rite](#), a web application that helps track spending, within 25 hours, together with a skilled team of 4, using Node.js, React, Tesseract OCR, OpenCV, Python, and Google Cloud Vision.

## Education

Second-year Computer Engineering student at the University of Toronto, expecting to graduate in 2025.

## Recognition

- Qualified for the [Ontario Engineering Competition](#) 2022 in Programming as a first-year student, by winning the [University of Toronto Engineering Competition](#) in the corresponding category.
- Among the top 50 most credited security contributors on GitHub.

## Projects and Interests

I have a large body of published work spanning several years. See [my website](#) for a curated selection.