

Keefer C. Rourke

COMPUTER SCIENCE STUDENT • FULL-STACK SOFTWARE DEVELOPER

494-A Harbour View Cres., Waterloo, ON N2K 4A1

+1 519.807.1217 • mail@krouke.org • https://krouke.org • keeferrouke • keeferrouke

Skills

Languages:	English (native), Français (elementary), Deutsch (basics)
Programming:	Golang, C/C++, Python, Shell, Java 8, Node/JavaScript, Regex, JSON
Back-end/Devops:	Git, Nginx, Cron, SQL (MySQL, SQLite3), MongoDB, package management, Unix systems administration
Front-end:	HTML5/CSS3, Angular.js, JQuery, Pug/Jade, Java-Swing, Material Design, and UI-Kit
Operating Systems:	GNU/Linux (Fedora, Debian/Ubuntu, OpenSUSE, Arch Linux), OpenBSD, macOS, POSIX
Communication:	Possesses clear, communication skills used to write comprehensive software documentation, and give high-level presentations
Development:	Applies open-source, test-driven development, Agile/DevOps strategies, and Unix principles of design in software development

Education

Honours Bachelor of Computer Science (CO-OP), Minor Mathematics

UNIVERSITY OF GUELPH

Guelph, ON

Sept. 2016 – present

- Expected graduation in May 2021
- Cumulative weighted grade point average: 4.0

International Baccalaureate Programme

CAMERON HEIGHTS COLLEGIATE INSTITUTE

Kitchener, ON

Sept. 2012 – June 2016

- Received Ontario secondary school diploma in June 2016
- Received International Baccalaureate certificates for Mathematics and Chemistry in July 2016

Experience

PROFESSIONAL

Undergraduate Research Assistant, Full-stack Web Developer

SCHOOL OF COMPUTER SCIENCE — UNIVERSITY OF GUELPH

Guelph, ON

Jan. 2017 – present

- Developed e-learning software platform for programming and essay writing, using Node.js
- Wrote verbose human language processing utilities using Python
- Wrote comprehensive documentation and robust scripts to simplify installation on Debian-based operating systems

Application Engineering Intern

XYLEM INC. — APPLIED WATER SYSTEMS

Guelph, ON

Jul. 2016 – Sept. 2016

- Corrected legacy databases to eliminate thousands of data inconsistencies to improve business process efficiency
- Created documentation for specialized business software to simplify technical training in the office
- Provided suggestions to optimize business procedures in 16-page report, which were tabled for later implementation

Front End Web Developer

YUMR — THE VISUAL FOOD FINDER

Waterloo, ON

Feb. 2016 – Jul. 2016

- Refactored the web code-base and completely redesigned the interface for more intuitive usage
- Improved cross-platform user interface consistency using Material Design

NOTABLE PERSONAL PROJECTS

Founder and Lead Developer/Designer

TOKUMEI — ANONYMOUS MICROBLOGGING

<https://tokumei.co/>

Nov. 2015 - present

- Designed and implemented scalable ranking algorithms for trending posts and tags
- Attracted international interest for use and development of the platform from software developers in 4 countries
- Currently rewriting entire code-base in Golang, implementing a redesigned concurrent server model

VOLUNTEER

Non-profit Laptop Refurbisher

COMPUTER RECYCLING — THE WORKING CENTRE

Kitchener, ON

Aug. 2014 – Aug. 2016

- Identified and solved hardware problems using diagnosis software, in efforts to reduce e-waste and recover usable parts
- Refurbished laptop and desktop computer hardware in preparation for resale to low-income individuals
- Provided training to community members in the operation of GNU/Linux (Xubuntu) and productivity software

Extracurricular Activities

HACKATHONS

Sept. 2017 **MHacks X, University of Michigan**

Ann Arbor, MI

Developed prototype for unique image-based cryptographic, hidden messaging

Sept. 2017 **Hack the North, University of Waterloo**

Waterloo, ON

Developed grep-like utility for searching for text within images using optical character recognition

CONFERENCES AND PRESENTATIONS

Jan. 2018 **StarCon 2018 — University of Waterloo Software Engineering Conference**

Waterloo, ON

Presented: “Gloom, Doom, and the Internet”, a talk about internet privacy and security

Aug. 2017 **Graduate Student University Teaching Conference**

Guelph, ON

Presented: “Teaching with Tech: How to Upgrade in-class Teaching”

May. 2017 **Ontario Centres for Excellence: Discovery Business Conference**

Toronto, ON

Exhibited Tokumei Co. to business professionals, as a youth entrepreneur

Honours & Awards

Nov. 2017 **Jay Majithia Scholarship**

University of Guelph

Awarded \$1000 for contributions to departmental research in the University of Guelph School of Computer Science

2016 & 2017 **Dean’s List: College of Physical and Engineering Sciences**

University of Guelph

Achieved greater than 80% semester averages in the Fall 2016 and Winter 2017 semesters

Sept. 2016 **University of Guelph Entrance Scholarship**

University of Guelph

Awarded \$3000 upon acceptance to the University of Guelph with an average greater than 90%

2015 & 2016 **First & Second Letters in Academics**

Cameron Heights C.I.

Completed every semester of secondary school with Honour Roll recognition

2015 & 2016 **First & Second Letters in Activities**

Cameron Heights C.I.

Received for outstanding involvement in secondary school activities

Feb. 2015 **Certificate of Distinction**

University of Waterloo

Scored within the top 25% nation-wide in the *Canadian Computing Competition*

Feb. 2015 **Certificate of Distinction**

University of Waterloo

Scored within the top 25% nation-wide in the *Fermat Mathematics Contest*

Jun. 2015 **Subject Proficiency in Computer Engineering**

Cameron Heights C.I.

Earned highest grade point average in the 2014-2015 year for Computer Engineering