

# Keefor 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 · 📷 keeferourke · 🌐 keeferourke

## Skills

---

<b>Programming:</b>	Golang, C/C++, Shell, Node/JavaScript (ES6), Java 8, Python, JSON, Regex
<b>Back-end/DevOps:</b>	REST API development, Unix system administration, Git, Nginx, Docker, Ansible, Systemd, Cron, relational databases
<b>Front-end:</b>	HTML5/CSS3, JQuery, templating (Handlebars, Golang, Pug/Jade)
<b>Operating Systems:</b>	GNU/Linux (Fedora, Debian/Ubuntu, OpenSUSE, Arch Linux), OpenBSD, macOS, POSIX
<b>Communication:</b>	Possesses clear, communication skills used to write comprehensive software documentation, and give high-level presentations
<b>Development:</b>	Applies Agile/test-driven strategies and Unix principles of design in software development

## Education

---

### Honours Bachelor of Computer Science (Co-op), Minor Mathematics

Guelph, ON

UNIVERSITY OF GUELPH

Sept. 2016 – present

- Expected graduation in May 2021
- Cumulative weighted grade point average: 4.0
- Accepted to honours program with 94% entrance average on scholarship

## Experience

---

### PROFESSIONAL

#### Software Developer

Metro Vancouver, BC

RIGHTMESH — LEFT INC.

Apr. 2018 – present

- Developed and deployed automated, modular software stacks on Amazon Web Services
- Refactored code into platform independent interfaces, following the Inversion of Control pattern
- Identified problems and proposed solutions for software security and reliability, particularly focused on trust models in decentralized systems

#### Research Assistant & Back-end Web Developer

Guelph, ON

UNIVERSITY OF GUELPH — SCHOOL OF COMPUTER SCIENCE

Jan. 2018 – Apr. 2018

- Designed and developed modular web framework using Node.js, using the model-view-controller pattern
- Investigated capabilities and interoperability of mobile mesh networking with the web server
- Lead and participated in regular design meetings, ensuring organization and clear communication during development

#### Research Assistant & Full-stack Web Developer

Guelph, ON

UNIVERSITY OF GUELPH — SCHOOL OF COMPUTER SCIENCE

Jan. 2017 – Dec. 2017

- Developed full-stack 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

Guelph, ON

XYLEM INC. — APPLIED WATER SYSTEMS

Jul. 2016–Sept. 2016

- Corrected legacy databases to eliminate thousands of data inconsistencies to improve business process efficiency
- Created guidelines for improved process efficiency through the use of automation technologies

## NOTABLE PERSONAL PROJECTS

### Founder and Lead Developer/Designer

<https://tokumei.co/>

TOKUMEI — ANONYMOUS MICROBLOGGING

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

## RECURRING VOLUNTEER ROLES

### Lead Organizer

Guelph, ON

GUELPH CODING COMMUNITY

Jan. 2018–May 2018

- Organized a series of bi-weekly technology-oriented special-topic talks and demonstrations for students

## Extracurricular Activities

---

### CONFERENCE PRESENTATIONS

Aug. 2018 **2018 Indigenous Mapping Workshop**

Montréal, QC

Invited speaker on the subject of mesh networking and improving connectivity in Inuit communities

Jan. 2018 **StarCon 2018 — Software Engineering Conference**

University of Waterloo

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

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

University of Guelph

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

---

Jul. 2018 **Major League Hacking Ethical Tech Initiative Scholarship**

Omidyar Network

Awarded \$10 000 USD for submitting a series of short essays and technical abstracts on the subject of technology and society

Nov. 2017 **Jay Majithia Scholarship**

University of Guelph

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

2016–2018 **Dean’s List: College of Physical and Engineering Sciences**

University of Guelph

Achieved greater than 80% semesterly averages in the Fall 2016, Winter & Fall 2017, and Winter 2018 semesters

May 2017 **OCE Youth Entrepreneur Scholarship**

Ontario Centres for Excellence

Awarded funding to attend and exhibit at the 2017 OCE Discovery business, technology, and innovation conference in Toronto, ON

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

University of Guelph

Awarded \$3000 upon acceptance to the University of Guelph for attaining greater than a 90% application average