

# Keefor C. Rourke

COMPUTER SCIENCE STUDENT · FULL-STACK SOFTWARE DEVELOPER

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## Skills

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<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

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### 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

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### PROFESSIONAL

#### Junior Software Developer

Metro Vancouver, BC

LEFT INC. — RIGHTMESH

Apr. 2018–present

#### Undergraduate 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

#### Undergraduate 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 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

## 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

### Non-profit Laptop Refurbisher

Kitchener, ON

COMPUTER RECYCLING — THE WORKING CENTRE

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

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### CONFERENCE 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

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- 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