

Keefer C. Rourke

COMPUTER SCIENCE STUDENT · FULL-STACK SOFTWARE DEVELOPER

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Skills

- Programming:** Golang, C/C++, Shell, Node/JavaScript (ES6), Java 8, Python, JSON, Regex
- Back-end/DevOps:** REST API development, Unix system administration, Git, Nginx, Docker, Ansible, Systemd, Cron, relational databases
- Front-end:** HTML5/CSS3, JQuery, templating (Handlebars, Golang, Pug/Jade)
- 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 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

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

CONFERENCE PRESENTATIONS

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