

Keefor C. Rourke

COMPUTER SCIENCE STUDENT · SOFTWARE DEVELOPER

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Skills

Programming: Python, C/C++, Golang, Shell, Node/JavaScript (ES6), Java 8 (JUnit 5), JSON, YAML, Regex, ReactiveX
Back-end/DevOps: REST API development, Unix system administration, concurrent & asynchronous programming, databases (RDBMSs & NoSQL), microservices, Git, Cron, GitLab CI, Docker, Ansible, Nginx, Systemd
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 written and oral communication skills for technical writing and presentations
Development: Applies Agile/test-driven methodologies and modular design principles to create robust software
Teamwork: Regularly attends hackathons and works in teams to accomplish objectives, using techniques such as pair programming and rapid prototyping

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
- Vice President of External Affairs for the Society of Computer and Information Sciences 2018–2019

Experience

PROFESSIONAL

Software Developer

Metro Vancouver, BC

LEFT INC. — RIGHTMESH

Apr. 2018–Dec. 2018

- Developed and automated deployment of modular software stacks on Amazon Web Services
- Lead refactoring of monolithic codebase into platform-independent modules, thereby streamlining and improving build and deployment processes
- Identified problems and proposed solutions for software security and reliability, particularly focused on trust models in decentralized systems
- Awarded 2018 Co-op Student of the Year at the University of Guelph, and nominated as applicant for provincial and national levels

Research Assistant & Back-end Web Developer

Guelph, ON

UNIVERSITY OF GUELPH — SCHOOL OF COMPUTER SCIENCE

Jan. 2018–Apr. 2018

- Designed and developed secure, modular web framework with NodeJS using the model-view-controller pattern
- Investigated capabilities and interoperability of mobile mesh networking with the web application 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 NodeJS
- 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, improving business accuracy and efficiency
- Created documentation for specialized business software to simplify technical training
- Created guidelines for improved process efficiency through the use of automation technologies

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

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

SCHOLARSHIPS

- Jan. 2019 **Co-op Student of the Year (B. Computing) (\$1000 CAD)** University of Guelph
Nominated by Left Inc., and awarded by the University of Guelph in recognition of outstanding workplace performance, academic achievement, innovation, and involvement within the community
- Oct. 2018 **Michele and Maria Vanneli Scholarship (\$1000 CAD)** University of Guelph
Awarded by the Dean of the College of Physical and Engineering Sciences for academic excellence and community leadership
- Jul. 2018 **Major League Hacking Ethical Tech Scholarship (\$10 000 USD)** Omidyar Network
Awarded for authoring a series of essays on the subject of technology and society
- Nov. 2017 **Jay Majithia Scholarship (\$1000 CAD)** University of Guelph
Awarded for contributions to departmental research in the School of Computer Science
- May 2017 **OCE Youth Entrepreneur Scholarship (approx. \$1000 CAD)** Ontario Centres for Excellence
Awarded funding to exhibit at the 2017 OCE Discovery business and technology conference in Toronto, ON
- Sept. 2016 **University of Guelph Entrance Scholarship (\$3000)** University of Guelph
Awarded upon acceptance to the University of Guelph for attaining greater than a 90% admission average

HONOURS

- 2016–2018 **Dean’s List: College of Physical and Engineering Sciences** University of Guelph
Achieved greater than 80% semesterly averages in all full-time academic semesters