Keefer C. Rourke

COMPUTER SCIENCE STUDENT • WEB DEVELOPER

*Waterloo, Ontario, Canada*

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**Skills**

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| *Languages:* | English (native), Français (elementary), Deutsch (basics) |
| *Programming:* | Go, C/C++, Python, Shell, Regex, Java, NodeJS/JavaScript, JSON |
| *Back-end:* | Nginx, Git, MySQL/MariaDB, package and dependency management |
| *Front-end:* | Angular.js, Jquery, Bootstrap, Pug/Jade templating, Sass, Material Design, UI-Kit |
| *Software:* | LaTeX, Vi(m), Inkscape, the GIMP, NextCloud, LibreOffice, Microsoft Office & Outlook |
| *Operating Systems:* | POSIX, GNU/Linux (Debian, Fedora, Arch), macOS, \*BSD, Android Microsoft Windows |
| *Technology:* | Raspberry Pi, Arduino, circuit logic, GPIO |
| *Communication:* | Public speaking, presentational skills, software documentation, procedure mapping |

**Experience**

PROFESSIONAL

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| **Undergraduate Research Assistant, Full-stack Developer** | *Guelph, Ontario* |
| SCHOOL OF COMPUTER SCIENCE – UNIVERSITY OF GUELPH | J*an. 2017 – present* |

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

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| **Application Engineering Intern** | *Guelph, Ontario* |
| XYLEM INC. | *Jul. 2016 – Sept. 2016* |

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

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| **Front End Web Developer** | *Waterloo, Ontario* |
| YUMR – THE VISUAL FOOD FINDER | 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

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| **Founder and Lead Developer/Designer** | *https://tokumei.co/* |
| TOKUMEI – ANONYMOUS MICROBLOGGING | *Nov. 2015 – present* |

* Designed and implemented scalable algorithms for trending posts and tags
* Attracted international interest for use and development of the platform from software developers in 4 countries
* Wrote and maintained comprehensive documentation for multiple platforms and system configurations

VOLUNTEER

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| **Non-Profit Laptop Refurbisher** | *Kitchener, Ontario* |
| Computer Recycling – The Working Centre | *Aug. 2014 – Aug. 2016* |

* Identified and solved hardware problems using diagnosis software, in efforts to reduce e-waste
* 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), Unix command lines, and other productivity software

**Education**

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| **Honours Bachelor of Computer Science (CO-OP), Minor Mathematics** | *Guelph, Ontario* |
| UNIVERSITY OF GUELPH | *Sept. 2016 – present* |

* Expected graduation in May 2021
* Cumulative weighted GPA: 4.0
* Earned 96% final average in Discrete Mathematics I
* Earned 98% final average in Data Structures in C

**Extracurricular Activities**

HACKATHONS

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| Sept. 2017 | **Mhacks X, University of Michigan**  Developed a unique proof of concept for a steganography-based messaging system | *Ann Arbor, MI* |
| Sept. 2017 | **Hack the North, University of Waterloo**  Developed of Unix-like utility for searching for text within images | *Waterloo, ON* |

CONFERENCES AND PRESENTATIONS

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| Aug. 2017 | **Graduate Student University Teaching Conference**  Presented "Teaching with Tech: How to Upgrade In-class Teaching" | *Guelph, ON* |
| May. 2017 | **Ontario Centres for Excellence: Discovery Business & Innovation Conference**  Exhibited Tokumei Co. to business professionals, as a sponsored youth entrepreneur | *Toronto, ON* |
| Jan. 2017 | **Canadian University Software Engineering Conference**  Attended talks and workshops for improving technical skills as a software engineer | *Waterloo, ON* |

**Honours & Awards**

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| 2016 & 2017 | **Dean's List: College of Physical and Engineering Sciences**  Achieved > 80% semester averages in Fall 2016 and Winter 2017 | *University of Guelph* |
| Sept. 2016 | **University of Guelph Entrance Scholarship**  Awarded $3000 upon acceptance to the University of Guelph with an average > 90% | *University of Waterloo* |
| 2015 & 2016 | **First & Second Letters in Academics**  Completed every semester of secondary school with averages exceeding 80% | *University of Waterloo* |
| Feb. 2015 | **Certificate of Distinction**  Scored within the top 25% nation-wide in the Canadian Computing Competition | *CHCI: Kitchener, ON* |
| Feb. 2015 | **Certificate of Distinction**  Scored within the top 25% nation-wide in the Fermat Mathematics Contest | *CHCI: Kitchener, ON* |
| Jun. 2015 | **Subject Proficiency in Computer Engineering**  Earned highest average in the 2014-2015 year for Computer Engineering | *CHCI: Kitchener, ON* |