

Tadhg McDonald-Jensen

It is pronounced *Teague* and means ["bard" or "poet" in gaelic](#). (It is not Klingon)

Contact and Online Profiles

- [vcard v4](#) (more detailed but probably won't work on your device)
- [my contact card](#) (for most devices)
- Email: tadhgmaster@gmail.com
- Texts and voicemail: [\(343\) 655-2007](tel:(343)655-2007)
- [Stackoverflow](#) top 2% overall by reputation
- [Github](#)
- [Instagram](#)
- [LinkedIn](#)

Skills

- Write clean, well documented code
- Knowledgeable in: Python, Java, MATLAB, C, HTML, CSS, Typescript, Guile Scheme, Bash, R, Latex, Applescript
- Inquisitive: naturally asks well formulated clarifying questions, ensures correct details of task before starting task, seek out solutions and test theories
- Quick learner who once helped a friend write [Processing.Java](#) code and had success editing and correcting their code for 2 hours before disclosing I had never used Processing before that session
- Use Linux as primary operating system and am comfortable using terminal for editing code, looking up documentation, compiling code, etc.

Work Experience

Developer for Ericsson Indoor Planner ([EIP](#))

2018 to 2019

- Improved efficiency of backend MATLAB radio deployment simulation, reducing the test suite execution time to 60%
- Coordinated 6 programmers in porting hardware cable routing simulations from existing iOS app to web application written in typescript, focusing on separating tasks to maximize parallel development
- Crafted Typescript wrapper functions for React and Redux to enable our team to add typesafety with minimal code writing overhead

Teaching Assistant at Carleton

- [SYSC 3303](#): Real-Time Concurrent Systems 2022
 - Evaluated student projects written in Java, identified race conditions or other criteria that would break their code and provided suitable feedback for them to fix it
 - [YouTube walkthrough](#) of multi-threaded data structure analysis to help students understand how to analyze their code for correctness
- [SYSC 4001](#): Operating Systems 2023
 - Explained core concepts for operating systems including asynchronous interrupts

- [ECOR 4995](#): Professional Practice 2024
 - Provided extensive feedback on submitted essays
 - Regularly replied to student queries about grades and marking processes

Education

- Masters of Applied Science at Carleton University 2021 to Now
- Bachelors of Computer Systems Engineering at Carleton University. 2016 to 2021
Graduated with 10.68/12 CGPA

Interesting things I've done

- Created a clone of the [water/ball sort game](#)
- For the 4th year engineering project our team designed a wearable watch to collect biometrics, I wrote the [program to offload the data from the device and log / graph it for demonstration.](#)
- Designed circuits in [Logisim](#) and [made edits to the Java source code](#) to better support using it on an iPad
- [Github issues for typescript](#) that I've authored including a [viable proposal](#) to one of typescripts longest outstanding limitations
- [Contributions to eslint-typescript](#) including an interesting case where the solution was to [educate the users](#) instead of "fixing" their code
- [Solved an obscure python issue](#) where certain cases error messages would point to very misleading line numbers, the files linked [in this page](#) are the codes I wrote to fix the issue; other maintainers used this to fix the problem
- [Submitted a python bug report](#) about misleading error messages and had to argue that it was a legitimate issue before it was corrected
- [YouTube video](#) of brief overview of different forms of caching (expects a lot of prior knowledge)
- A clock based on getting the current time as a real number of days between 0 and 1 and then representing it in:
 - [Dozonal with normal clock display + dozonal cheatsheet](#)
 - [Dozonal \(base 12\) recursively nesting](#) so each block's area directly represents how much time it represents.
 - [Decimal \(base 10\) similarly recursive](#)
- ["Scoops" as a unit of volume using base 12](#) to simplify cooking
- [BookSUSAN](#): animated children's story written for grade 10 english

