

Youssef Moawad

CS and Physics undergraduate and Software Developer

Passionate about using technology and CS to help people around the world

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PERSONAL STATEMENT

I have about 12 years of experience in programming including 6 years in app development, during which I accumulated plenty of experience in multiple programming languages and platforms. I started releasing apps to the App Store in 2013 and since then I have published nearly 20. You can have a look at everything I have built over the past few years at my personal website <https://devdude.me>. Currently, most of my projects involve building iOS apps with Swift as well as cross-platform apps using React Native.

EDUCATION

Studying towards *MSci Computing Science and Physics* at the *University of Glasgow*.

Fourth Year

I am currently in my fourth year of university. Computing courses studied include *Functional Programming, Theory of Computation, Advanced Systems Programming, and Programming Languages*. I am also currently undertaking an *Individual Project* in CS about Accelerating Quantum Computing Simulators, potentially using FPGAs, on which I will write my fourth year dissertation.

Third Year

I finished third year with a final GPA of **19/22**. During this year, I undertook a team project (achieving a grade of **A3**) which involved designing and developing a mobile app for the YMCA Scotland charity. The project proved to be a significant learning experience in working as a team, using a project management system like GitLab and further developed my technical skills as the app was developed using *React Native* (which I had not used before) with a backend built on *Node.js*.

First and Second Year

I finished first and second year with a final combined GPA of **19.29/22**.

TECHNICAL SKILLS

- **Programming:** Experienced: Swift, Objective-C, HTML5 & CSS3, JavaScript, SQL, Java, Python, C#. Intermediate: PHP, C, C++, Java. Beginner: Rust, Go, Haskell.
- **Technologies:** Experienced: Xcode, Cocoa/Cocoa Touch, React Native, Node.js, Express and Express-Handlebars, Redux, Git, GitHub, GitLab, jQuery, Jest, Numpy, MySQL. Intermediate: Django, SASS, React, Cordova, MS Visual Studio, Bootstrap. Beginner: Wordpress, Stripe, Apache, JUnit, Jenkins, Unity, SQLite, MongoDB.
- Competent with macOS, iOS, Windows, Linux.

WORK EXPERIENCE

Software Developer at Channel Shift Solutions Ltd. (June 2018-Current)

- Joined the development team at Channel Shift Solutions to further their software development operations and help them expand to new markets.
- Worked on a substantial React Native project to bring a series of websites to cross-platform apps.

Lab Demonstrator at the University of Glasgow (September 2018-Current)

I tutor first year Python students in the Department of Computing Science.

Game Developer/User Interface Design Intern at Synaptic Hub Ltd. (July-September 2017).

- I joined the development team at Synaptic Hub Ltd. during the summer of 2017 to work on the alpha version of *DYsLexiMeter*, an iPad game that is used for the diagnosis of dyslexia in children.
- Gained experience working in a professional software development environment and in software development paradigms such as Scrum and the Agile methodology.
- Furthered my experience with using Git in a team environment.
- I was involved in the initial design and requirements capture of the game and then in the earliest stages of its implementation.

EXTRACURRICULAR ACTIVITIES

- **Released over 20 apps and games to the Apple App Store**, the most notable of which is [Matrix Master 2](#), which lets users perform various matrix calculations, including eigenvectors/eigenvalues and matrix powers, for matrices of flexible sizes. You can find links to these projects at <https://devdude.me/projects>.
- **Built the website:** <https://devdude.me> where anyone can read about the projects I worked on and the ones I am currently working on. It also has an integrated blog (devdude.me/blog) where I write about technologies I use in development, particle physics and other things.
- Became President of the board of Glasgow University Tech Society in 2018/19 and organised *Do You Have The GUTS 2018*, a brand new event called *StartUp Factory*, and many more to come.
- Became a member of the committee of Glasgow University Tech Society in 2017/18 and helped organise *Hacker Olympics*, *Do You Have The GUTS 2017*, *CDX 2018* and other events hosted by the society.
- Attended *Cyber Defense Exercise Hackathon 2017* hosted by Glasgow University Tech Society (*GUTS*) and achieved second place with my team.
- Attended *CERN Spring Campus 2017* hosted by the CS department at Glasgow University.

References are available upon request.