

## Youssef Moawad

Glasgow, UK

22 November, 1997 • (+44) 7831828995 • [youssef\\_programming@icloud.com](mailto:youssef_programming@icloud.com)

### Personal Statement

I started learning to program when I was nine and over the years I accumulated plenty of experience in multiple programming languages and platforms. I have about 11 years of experience in programming and 5 years in app development. I started releasing apps 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 <http://devdude.me>. For the time being, most of my projects involve building mobile apps with Swift and website backends with Django or PHP.

### Education

#### University

*Computing Science and Physics at the University of Glasgow – Second year*

Average GPA at the time of writing: 18.9/22

#### High School

*CIE IGCSE (2013-2014):*

**A\*A\*AAAAAA** including Maths, Physics and First Language English

*CIE A Levels (2014-2015):*

- Mathematics: **A\*** (A Level)
- Physics: **A** (A Level)
- Further Mathematics: **C** (A Level)
- English Language: **B** (AS Level)

### Technical Skills

- Computer Languages: Swift, Objective-C, HTML & CSS, JavaScript, PHP, SQL, Java, Python, C#
- Applications: Xcode, MS Visual Studio, Apache
- Operating Systems: macOS, Windows, Linux, iOS
- Database Systems: MySQL, SQLite, MS Access
- Technologies: Node.js, Django, SASS, Express and Express-Handlebars

### Activities

- **Released a multitude of apps and games to the Apple App Store (with 40,000 total downloads)**, the most notable of which are:
  1. Matrix Master 2
    - Lets users perform various matrix calculations, including eigenvectors/eigenvalues and matrix powers, for matrices of flexible sizes.
    - Has 23,000+ downloads.
  2. UzuConvert
    - Lets users convert units. This was a major update for the first app I published (iConvertMaster). It introduced new quantities, units and allowed users to learn more about the units and the quantities they are using.
    - Has 3,100+ downloads.
  3. iSolveEQ
    - Solves polynomial equations and simultaneous equation systems.
    - Has 1,700+ downloads.

#### 4. Antimatter Blast

- A game which requires the player to destroy incoming antimatter particles to avoid annihilating the lab.
- Has 300+ downloads.

#### 5. Alien Kamikaze

- A game which requires the player to dodge incoming enemy ships by moving their ship out of their way.
- Has 100+ downloads.

You can find links to these projects at <http://devdude.me/projects>.

- Released iConvertMaster (which was remade into UzuConvert on iOS) to the Google Play Store
- Supported creation of Matrix Master for Android
- **Built the website:** <http://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 where I write about technologies I use in development, particle physics and other things
- Founded Uzusoft as a name under which to release my apps and built the website: [www.uzusoft.com](http://www.uzusoft.com)
- Attended *Cyber Defense Exercise Hackathon 2017* hosted by Glasgow University Tech Society and achieved second place with my team
- Attended *CERN Spring Campus 2017* hosted by the Computing Science department at Glasgow University

### Current Projects

- Working on ‘**The Standard Model**’, an app for iOS that lets users manipulate and learn about fundamental particles and their interactions and draws Feynman Diagrams for the user.
- I recently started a blog at <http://devdude.me/blog> to write about technologies I use in my projects as well as topics that interest me in physics. Most of the published articles so far are physics related.

### Skills

I have the ability to think very systematically and in a logical manner and to create and follow patterns to simplify and enhance my workflow, improving them as needed. I have been self-taught in programming for the entire period since I started until I began university and I was also self-studying during high school as I was homeschooled so I have very strong self-motivation and ability to quickly pick up new skills.

### Interests

- Particle Physics
- Using technology and computer science to improve everyday life
- Coming up with innovative ways to improve databases and the way we store data

### References

I have no prior work experience so I have provided academic references.

Dr Dimitrios Pezaros

Senior Lecturer (Computing Science) at University of Glasgow

Email: [Dimitrios.Pezaros@glasgow.ac.uk](mailto:Dimitrios.Pezaros@glasgow.ac.uk)

Telephone: 01413306051

Dr Jonathan Taylor

Lecturer in Physics (Physics and Astronomy) at University of Glasgow

Email: [Jonathan.Taylor@glasgow.ac.uk](mailto:Jonathan.Taylor@glasgow.ac.uk)

Telephone: 01413305328