

Jake Xuereb

+356 79632408

jakexuereb.com

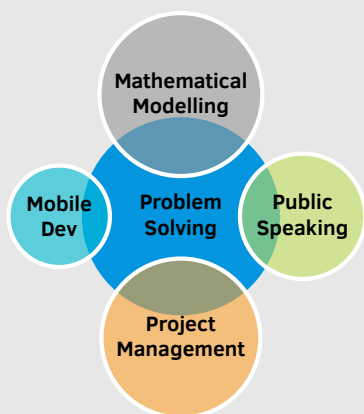
jqed.xuereb@gmail.com

/in/jake-xuereb

jqed-xuereb

Skills

Overview



Programming

0 LOC → 5000 LOC

• Python

• React.js

• C++ • MATLAB • HTML5 • CSS

Projects

PHY1135 - Molecular Dynamics simulation in Python making use of SciPy, MATPLOTLIB and NumPy, following a Lennard Jones Potential for n particles.

jakexuereb.com - Personal website built using HTML5 and CSS3, under construction.

• Notes - Extensively compiled notes on Introductory Analysis and Group Theory in \LaTeX making use of *tikz* and *pgfplots*.

LearnD - Became familiar in Frontend Tech such as React.JS, AXIOS, Node.JS, HTML5 and CSS3 so that the project could be overseen in detail when out-sourced.

Education

2017 - 2021 **BSc. Mathematics & Physics**

University of Malta

Completed my first year of undergraduate studies and interested deeply in Quantum Mechanics under the tutelage of Dr. André Xuereb.

2015 - 2017 **MATSEC Certificate**

De La Salle College Sixth Form

Attained A-Levels in Mathematics, Physics & Chemistry with Intermediates in English & Philosophy.

Experience

June 2017 - **Co-founder**

LearnD.

Present

- My role involved the creation of the team and the idea behind the product. Throughout the development year I was mainly in charge of execution of goals and maintaining the vision for the product. Also being the main arbiter of our project when introducing the idea to collaborators or funding boards.
- In a team of 3 under the mentorship of Dr. Jean Paul Ebejer, won \$13,500 in funding from The TakeOff business incubator at the University of Malta through TOSFA, to develop and launch a mobile platform by late 2018.
- Undertook the task of learning frontend mobile development in initial stages of the idea so as to inform future decisions in our sourcing and to move towards having an in house hot-fix capable team. Built several toy hybrid mobile & web apps with React Native, React.js including forms and login platforms.
- Developed an extensive network of collaborators including Ed Muscat Azzopardi from Switch Digital and Dr. Rachel Vella Baldacchino from WH Partners. Working with both to develop an effective brand identity and launch strategy with Switch Digital and to draft a strong Terms & Conditions with WH Partners.

June 2017 - **Chemistry & Physics Tutor**

Present

- Prepared students for their O-Level, Intermediate and A-Level exams in these subjects functioning as a one-to-one tutor. Focusing on fixing misunderstandings and working on achieving tailor made strategies for each student.
- This job allowed me to make use of my passion for the Sciences and also hone my verbal explanatory and delivery skills.

Summer 2015 **Waiter/ Bartender**

Zion Reggae Bar

Summer 2016

- Was in charge of managing bar and stock room inventory.
- Learned to work in a team together with other waiters to delivery a consistent quality service.

Interests

June 2014 - **Chairman**

Cospicua Scouts Venture Unit

Dec 2014

- I joined the Cospicua Scouts in 2010 to pursue a more regular regimen of outdoor activities which included Camps with over 100 people, canoeing in Germany, abseiling, knot work and first aid.
- As Chairman of the Venture Unit I managed and planned the Units' weekly meetings and schedule of activities during my tenure.

2009

Present

Guitar and Music

- Active guitarist in a three piece progressive rock band.
- I enjoy listening to anything from Jazz like Chick Corea to Prog Rock like the Japanese band, Toe.

Mar 2018

Present

Climbing

- Climbing sport climbing routes at a 5C level primarily at Wied Babu.

Communication of Science to the Public

- I am intensely passionate about communicating the power of Mathematics and Science to the public, particularly young students who are not introduced to this idea at school within the curriculum.
- I have had the opportunity to do this twice thus far, once being invited by DLS Sixth Form's Physics Teacher, Andre Grech, to talk to Sixth Formers about how to approach their A-Level studies and Science in general and once more to a younger audience of 8-14 year olds at the DLS Careers Day where Luke Collins and I talk to Students about *Graph Theory and Facebook* and *Why is your shirt white ?*, respectively.

Additional Information

Date and place of birth: 5th March 1999, Malta

Nationality: Maltese (EU Passport)

Languages: I am a Native Maltese and English Speaker with an O-Level knowledge of French.