Stefano Lupo Computer Engineer

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Skills

- Competent working in Java / Android, Javascript (Node), C, C++, MatLab, Git, ARM Assembly.
- Developed dynamic websites using HTML 5, CSS 3, jQuery, PHP and MySQL.
- Experience in front-end development using React / React Native and building REST APIs in Node.
- Comfortable with relational (MySQL, PostgreSQL) and non-relational (MongoDB) databases.
- Capable of working in Windows, Linux and macOS.

Academia

Third Level: 2014 - 2019

- Fourth Year Computer Engineering Student at Trinity College Dublin.
- Obtained an overall of 82%, 82% and 90% in 1st, 2nd and 3rd year respectively.

Academic Awards

- Kinsella Scholarship in Engineering from Jones Engineering Group, 2015.
- Robert Friel Memorial Prize from Trinity College Dublin, 2017.
- Stanford-Smith Prize in Computer Science from Trinity College Dublin, 2017.

Second Level: 2008 - 2014

- Attended St. Fintans High School, Sutton, Dublin 13, Ireland.
- Leaving Certificate Results: Received 565 points.

Work Experience

Full Stack Engineer, Wynk (Trinity College's Launchbox Program): July 2017 - August 2017

- Built a hybrid mobile dating application using React Native (with Redux).
- Created enhanced chat features such as sharing potential dates and sharing images.
- Built components of a REST API using Node, Express, Mongoose and MongoDB.

Self Employed Web Developer: 2015 - Present

- Develop websites for multiple clients in a variety of fields.
- Host each of the my clients' websites on a AWS EC2 Linux instance using Apache2.
- Please see _stefanolupo.tech_ for more information, a portfolio of websites I have built and my blog.

Tutor, The Academy of Code: January 2017 - Present

- Teach children from the ages of 8 to 18 the fundamentals of programming using Scratch and a Java based language called Processing.
- Work with children in both group and one on one settings.
- Break down programming and mathematics topics to make programming fun, inspiring and accessible to children of all ages.

Web / Game Development, Prof. Kevin Kelly - Trinity College Dublin: June - Aug 2015

- Developed mathematical models of real world markets, events and sales as well as algorithms to simulate the operations of manufacturing companies using Microsoft Excel.
- Implemented these algorithms in a web based game using PHP and MySQL.
- Designed user interfaces for the game with HTML, CSS & Javascript.

Projects (Source Code and Documentation on GitHub)

Top Down Role Playing Game for Android

- Worked as part of a team of eight to develop a role playing, pseudo 3D, top down game.
- Developed the game's entire engine from the ground up using only vanilla Android.
- Designed and implemented a system allowing world maps to be built using a simple spreadsheet and rendered in game allowing the rapid production of levels for the game.
- Please see *github.com/Richard-Lynch/Android-Top-Down-RPG* or my website for more info.

Implemented a Micro Coded Instruction Set Processor in VHDL

- Built a micro processor at the gate level which is capable of performing basic instructions.
- Added more complex functionality and instructions to the processor by writing micro code for instructions that could be executed over multiple clock cycles.
- Gained a deep understanding of how assembly level instructions are implemented using machine code and how the different components of a modern micro processor function.
- Please see *github.com/stefano-lupo/Micro-Coded-Processor* for the source code and a detailed write up.

Other Work Experience

Guitar Teacher: 2011 - 2016

- Taught guitar to children from ages 8-14 in both group and one on one setting.
- Provided students with an insight into fundamentals of music theory and helped improve their technical ability.

Bartender at Sutton Golf Club: 2013 - 2016

- Worked alone and as part of a team in a high pressure environment.
- Responsible for securing the premises and locking up at night time.

Interests

- Passionate about playing the guitar, piano, singing and listening to a variety of music genres.
- Played a lead role in my school's production of the musical 'Disco Inferno' and really enjoyed branching out into new fields such as acting.
- Enjoy woodworking and building furniture and other small projects in my spare time (please see my website's blog for examples).

Referees

Kevin Kelly
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Michael Healy
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