





# Stefano Lupo Computer Engineer

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## Skills

- Competent working in Java / Android, Javascript, C, C++, MatLab, Git, ARM Assembly.
- Developed dynamic websites using HTML 5, CSS 3, jQuery, PHP and MySQL.
- Experience developing using React and React Native as well as 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 82%, 82% and 90% in 1st, 2nd and 3rd year end of year examinations respectively.

### Second Level: 2008 - 2014

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

### Academic Awards

- Kinsella Scholarship for 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.

## Work Experience

- Full Stack Engineer, Wynk: July 2017 - August 2017
  - Ported a native Android mobile dating application to React Native and 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
  - Developed 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](https://stefanolupo.tech) for more information and a portfolio of websites I have built.
- Tutor, The Academy of Code: January 2017 - Present
  - Teach children from the ages of 8 to 18 the fundamentals of programming using Scratch and the Java based Processing language .
  - 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 and algorithms of real world markets, sales and events using Microsoft Excel to simulate the operations of manufacturing companies.
  - Implemented these algorithms in PHP and MySQL
  - Designed user interfaces for the game with HTML, CSS & Javascript.

## Projects (Source Code and Documentation on GitHub)

- Top Down RPG for Android
  - Worked as part of a team of 8 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](https://github.com/Richard-Lynch/Android-Top-Down-RPG) for more info.
- Implemented a Micro Coded Instruction Set Processor in VHDL
  - Built a processor from the gate level capable of performing basic instructions.
  - More complex functionality and instructions were then added to the processor by writing micro code for instructions that could be executed over multiple clock cycles.
  - Gained a deep understanding into how assembly level instructions are implemented using machine code.
  - Please see [github.com/stefano-lupo/Micro-Coded-Processor](https://github.com/stefano-lupo/Micro-Coded-Processor) for more information

## 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

Available on request.