

# Tim Fogarty

student software engineer



## contact

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## programming

JavaScript  
(Node.js, AngularJS)

CSS3 & HTML5

Some Java, PHP,  
MATLAB, & C

## tools

Git  
Grunt  
Emacs

## education

2011–now **Bachelor** of Natural Sciences The University of Nottingham, United Kingdom  
Specialization in Mathematics and Physics

## experience

2013–now **Imperial College London** London, United Kingdom  
*Web programming contractor*  
I built and maintain [projectpal.org](http://projectpal.org) for Imperial College. The site is used nationally to connect medical students to exciting projects. Used annually by 400 BSc students at Imperial.

## projects

**ProjectPal.org** [projectpal.org](http://projectpal.org) & [node.projectpal.org](http://node.projectpal.org)  
*PHP (legacy), M\*EAN Stack (\*M = MySQL)*  
Originally written in PHP, I'm now re-implementing it in Node. I used sequelize as an ORM for MySQL. I discovered how useful promises could be while working on this.

**EUPhorics** [euphorics.herokuapp.com](http://euphorics.herokuapp.com)  
*Node.js, D3.js*  
Discover European music with this interactive quiz. I used TopoJSON, SVGs, and D3 to make the interactive map.

**PodLearn.com** [podlearn.herokuapp.com](http://podlearn.herokuapp.com)  
*MEAN Stack*  
A peer-reviewed platform for medical education podcasts backed by the University of Liverpool.

**Investigation into Semiconductors** [github.com/tfogo/GaAs-Potentials](https://github.com/tfogo/GaAs-Potentials)  
*MATLAB, C*  
I built a numerical model of quantum dots formed by the out diffusion of interstitial  $Mn^{2+}$  donors in p-type GaAs. The very heavy computational routine was implemented in C for efficiency.

**VoiceCopter** [github.com/tfogo/voicecopter](https://github.com/tfogo/voicecopter)  
*Node.js*  
Control a Parrot AR Drone 2 with voice commands. Work in progress.

## publications

Dipender Gill, Tim Fogarty, Nathan Mountford, Christopher Tang, Elizabeth Yang. *Extra-Curricular Academic Opportunities Amongst Medical Students*. Poster session presented at: National Medical Education Conference; 2013 Jun 1; Exeter, UK.

## activities

- |          |  |                         |
|----------|--|-------------------------|
| 2013–now | <b>Hack Secretary</b>  | HackSoc                 |
|          | Responsible for finding and advertising external hackathons and organizing transportation to them.   |                         |
| 2012–now | <b>Treasurer, Vice-President, and President</b>  | Public Speaking Society |
|          | Responsible for leading, running, and financially planning for the society. Responsible for teaching training sessions on public speaking. |                         |

## interests

Hackathons, competitive programming (e.g. ICPC, HackerRank, Project Euler), quantum computing, reading A Song of Ice and Fire, running.