

# Patrick O'Doherty

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## Personal

Born 8th July 1992 - Irish Citizen

## Education

Scoil San Treasa 1997 - 2005

Gonzaga College S.J 2006 - Present

Prefect for the year of 2011

Junior Cert 2008

## Employment

**Intern at UCD's Complex and Adaptive Systems Laboratory June 2010 - July 2010.**

Project related to monitoring the public reaction to the World Cup and its most notable moments and included the following

- Creation of tools for the collection of large amounts of data from Twitter

- Writing analytical tools to process this data

**Development work for Patrick Collison June 2009 - August 2009.**

This included the following

- Modifications of current web app for public release resulting in the release of City-Blogger, an open source project

- System's Administration work involving

  - Migration of existing server to a new host

  - Migration of all existing sites hosted on the Lighttpd web server to Nginx.

**Camara volunteer September 2008 - September 2009.**

This included the following

- Fixing and checking the running status of computers in the workshop

- Maintenance and Management of the company IT system

- Modification of existing Linux distributions to cater to the company's needs

**O.S.G Outsource Services Group June 2008**

## Achievements

**Thiel Fellowship Finalist 2011**

**IMTA Dublin Team Maths Competition for Dublin 1st Place**

**Young Scientist Exhibition 2010**

Our project, entitled 'Analysing social trends on the web' involved gathering a large amount of data from social networks such as Twitter and writing analysis programmes to process this data to predict things such as TV talent shows and also to gather public opinion on certain topics. It won the following prizes

Google Special award for 'Trailblazing in the field of Technology'

Young Scientist 2010 Senior Technology Group 1st Place

#### **Young Scientist Exhibition 2009**

My project, entitled 'Energy Saving Through Automation' involved my creating an automation system for lights and appliances based on a different method of motion detection that I created using the Arduino microcontroller platform with the aim of reducing standby power usage.

It won the following awards

Science Foundation of Ireland special award for Engineering/Research into Green Technology

Young Scientist 2009 Intermediate Technology Individual 1st Place

#### **Young Scientist Exhibition 2008**

My project, entitled 'HiPPstr, Redefining social networking' involved writing a social networking website that made use of 3rd party API's to aggregate a users content in one place online.

It won the following awards

Young Scientist 2008 Intermediate Technology Group 1st Place

## **Computer Skills**

Good working knowledge of the Linux Operating System and system management

Considerable Experience of Web Development with PHP and the Codeigniter PHP Framework

Experience of development with Ruby on Rails web development framework for the Ruby scripting language

Knowledge of the Python scripting language

Experience with Arduino Microcontroller (ATMega Based) with 2009 Young Scientist project

## **Previous Works**

#### **Thinstack IRC Network website**

Developed site using PHP and CodeIgniter framework

Site includes heavy integration with Atheme IRC Services for shared authentication, and for allowing users to administrate channels from the website

## **References**

Mr Kevin Whirdey  
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Professor Pdraig Cunningham  
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