

# NOAH Ó DONNAILE

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<https://github.com/iandioch>

## EXPERIENCE

### Intern in Tools & Resources for Irish Language Technology

June 2018 – July 2018

Extracted website and PDF text, cleaned up data with **Python**, and aligned text with **Hunalign**. [Built a tool to analyse yes/no questions in Irish](#), a language without words for "yes" or "no", for a SMT system.

ADAPT Research Centre DCU

Dublin, Ireland

### Software Engineering Intern - Google Trips

June 2017 – May 2018

Added Spotlight Search integration, "view search history" feature, and granular notifications to the Google Trips iOS app in **Objective C** (with **UIKit**, **XCTest**, **OCMock**), with **Mercurial**.

Google Zürich

Zürich, Switzerland

### STEP Intern

July 2016 – September 2016

Worked on the Video Ads Engineering Productivity team on a project to reduce dependency bloat by splitting large disjoint libraries into small ones. Used **Java** (with **Guice**), **Python** (with **Flask**), **Javascript**, with **Piper**.

Google Zürich

Zürich, Switzerland

### Java Developer

July 2015 – August 2015

Trained **linear regression** model using the **SMILE** library to predict a user's salary based on their résumé. Wrote a tool to parse an applicant's education from their résumé with an **Elasticsearch percolator**. Worked in **Java** with **Gearman**, **Elasticsearch**, **Couchbase**, **git**.

Opening.io

Dublin, Ireland

## PROJECTS

### Dipla

University Project. 7 months, team of 4.

[Dipla](#) is an RPC and distributed computing framework for Python 3.5+

Wrote websocket communications, task queue, transmission of logic to nodes (**Python**, **asyncio**, **websockets**), directory server (**Python**, **Flask**), status page (**Javascript**, **ReactJS**, **chart.js**, **jinja2**).

### safer.place

HackYourWayDay 2017 Hackathon. Team of 2

[safer.place](#) is a website to estimate an Irish address' safety based on government-provided crime data

Wrote webserver (**Python**, **Flask**, **jinja2**), frontend (**HTML**, **Tachyons CSS**), did data cleanup (**Python**).

Wrote Irish language translation. Shortlisted for the DCU President's Prize for Innovation 2017.

### Feedlark

University Project. 3 months, team of 5

Web-based RSS aggregator that promotes items matching topics the user previously liked

Designed and implemented **microservices architecture** (**Gearman**), **topic modelling** (**Python**, **spaCy**), **machine learning** (**Python**, **Scikit-Learn**), and database interactions (**Go**, **MongoDB**).

## COMPETITIVE PROGRAMMING

I enjoy taking part in programming competitions, and practising for them.

I am one of the top 100 users on Kattis Online Judge, and am in the 20 highest ranked Irish users (top 0.66% of all users) on Project Euler. I have had the following results in various competitions:

Student Battle Dev Season 11	<a href="#">41st place</a>	IrlCPC 2018	<a href="#">1st place</a>
ICPC NWERC 2017	<a href="#">47th, 1st Irish team</a>	UKIEPC 2017	<a href="#">3rd Irish team</a>
IrlCPC 2017	<a href="#">3rd place</a>	Google Hash Code 2017	<a href="#">164th, 1st Irish team</a>
ICPC NWERC 2016	78th, 2nd Irish team	IrlCPC 2016	2nd place
Google Hash Code 2016	120th, 2nd Irish team	ICPC NWERC 2015	74th, 1st Irish team
IOI 2015, Kazakhstan	On Irish team	Google Call to Code 2014	6th place

## EDUCATION

### BSc. in Computational Problem Solving & Software Development

September 2015 – June 2019

Dublin City University

Dublin, Ireland

CPSSD is a 4-year degree for people with prior programming experience; read more at [the course site I created](#).

- 3rd year spent on placement at Google Zürich.

- 88% average grade in 2nd year (2nd in class ranking).

- 84% average grade in 1st year (3rd in class ranking).

Earned an **All-Ireland Scholarship** and a **DCU Academic Scholarship** as a result of obtaining **605 points** (top 1.2% nationally) in the Leaving Certificate in secondary school.