

# NOAH Ó DONNAILE

<https://noah.needs.money>  
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## EXPERIENCE

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**Intern in Tools & Resources for Irish Language Technology** ADAPT Research Centre  
*June 2018 – July 2018* *Dublin, Ireland*

Cleaned text with **Python**, aligned with **Hunalign**. Extracted Irish multi-word expressions from corpora. [Created tool to process yes/no questions in Irish](#) (which lacks words for "yes" & "no") for a SMT system.

**Software Engineering Intern - Google Trips** Google Zürich  
*June 2017 – May 2018* *Zürich, Switzerland*

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

**STEP Intern** Google Zürich  
*July 2016 – September 2016* *Zürich, Switzerland*

Worked on the Video Ads Eng. Prod. team on a tool to reduce dependency bloat by splitting large disjoint libraries into small ones. Worked in **Java** (+ **Guice**), **Python** (+ **Flask**), **Javascript**, with **Piper**.

**Java Developer** Opening.io  
*July 2015 – August 2015* *Dublin, Ireland*

Developed **Java** tools to predict a person's salary from their résumé (with [SMILE](#) linear regression), and to extract their education information from it (with **Elasticsearch**). Used **Gearman**, **Couchbase**, **git**.

## PROJECTS

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**Dipla** University Project. 2016 - 2017, 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 workers (**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**). Translated into Irish. Shortlisted for the **DCU President's Prize for Innovation 2017**.

**Feedlark** University Project. 2016, 3 months, team of 5  
*Web-based RSS aggregator that promotes items matching topics the user previously liked*

Designed and built microservices architecture (**Gearman**), topic modelling (**Python**, **spaCy**), ML recommender system (**Python**, **Scikit-Learn**), and database service (**Go**, **MongoDB**).

## COMPETITIVE PROGRAMMING

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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 programming competitions:

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

## EDUCATION

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**BSc. in Computational Problem Solving & Software Development** Dublin City University  
*September 2015 – June 2019* *Dublin, Ireland*

CPSSD is a degree aimed at students with prior CS experience. Read more at [the course site I created](#).

- 3rd year spent on placement at Google Zürich.
- **88% average grade** in 2<sup>nd</sup> year (2<sup>nd</sup> in class ranking). **Chairperson** of computing society.
- **84% average grade** in 1<sup>st</sup> year (3<sup>rd</sup> in class ranking). **Secretary** of computing society.

Earned an **All-Ireland Scholarship** and a **DCU Academic Scholarship** as a result of obtaining 605 points (of 625 maximum; **top 1.2%** nationally) in the Leaving Certificate in secondary school.