Noah Ó Donnaile

Homepage: https://noah.needs.money
Contact: iandioch11@gmail.com

Experience

Software Engineering Intern — **Google Zürich**
June 2017 – May 2018 — *Zürich, Switzerland*
Added Spotlight Search integration and "view search history" feature to the Google Trips iOS app in **Objective C** (with **UIKit**, **XCTest**, **OCMock**), with **Mercurial**.

Summer Trainee Engineering Programme (STEP) Intern — **Google Zürich**
July 2016 – September 2016 — *Zürich, Switzerland*
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**.

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

Teaching Assistant	CA117: Computer Programming II (**Python**), DCU	*January 2017 – May 2017*
Chairperson	Redbrick Computing & Networking Society, DCU	*April 2016 – April 2017*
Teaching Assistant	CA116: Computer Programming I (**Python**), DCU	*October 2016 – December 2016*
Secretary	Redbrick Computing & Networking Society, DCU	*April 2015 – April 2016*
Teaching Assistant	ComputeTY (**Java**), DCU	*January 2016*
Private Tutor	CA117 (**Python**), in aid of Childline, through 100minds	*January 2016 – May 2016*

Education

BSc. in Computational Problem Solving & Software Development — **Dublin City University**
September 2015 – June 2019 — *Dublin, Ireland*
CPSSD is a 4-year degree for people with prior programming experience; read more at the course site I created.
Earned an **All-Ireland Scholarship** and a **DCU Academic Scholarship** as a result of obtaining **605 points** in the Leaving Certificate (**top 1.2%** nationally). On track to graduate with 1st class honours.

Projects

safer.place — **HackYourWayDay 2017 Hackathon**
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**. Team of 2.

Dipla — **2nd Year University Project**
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**). Team of 4, **Scrum**, 7 months.

Feedlark — **1st Year University Project**
Feedlark is a 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**). Team of 5, **Scrum**, 3 months.

Programming Competitions

ICPC Northwestern Europe Regional Contest (NWERC) 2017	1st Irish team, 47th overall	Team of 3
Irish Collegiate Programming Contest (IrlCPC) 2017	3rd place	Team of 3
Google Hash Code 2017	1st Irish team, 164th globally	Team of 2
ICPC Northwestern Europe Regional Contest (NWERC) 2016	2nd Irish team, 78th overall	Team of 2
Irish Collegiate Programming Contest (IrlCPC) 2016	2nd place	Team of 3
Google Hash Code 2016	2nd Irish team, 120th globally	Team of 3
ICPC Northwestern Europe Regional Contest (NWERC) 2015	1st Irish team, 74th overall	Team of 3
International Olympiad in Informatics 2015, Kazakhstan	On Irish team	Solo
Google Call to Code 2014	6th overall	Solo