

Daniel Furnivall

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EDUCATION

UNIVERSITY OF GLASGOW

MSC IN SOFTWARE DEVELOPMENT

Expected Jun 2022 | Glasgow

Pred. Grade: Distinction

IMPERIAL COLLEGE LONDON

PHD IN HEALTH ECONOMICS

Feb 2017-Aug 2018 | London

Exited course to move up to Glasgow

UNIVERSITY OF YORK

MSC IN HEALTH ECONOMICS

Grad. Sept 2015 | York

UNIVERSITY OF GLASGOW

MA(HONS) IN ECONOMICS

Grad. May 2012 | Glasgow

LINKS

Github:// furnivall

LinkedIn:// danielfurnivall

Twitter:// @danielfurnivall

COURSEWORK

SOFTWARE DEV

Database Theory (Postgres)

Software Engineering (Java)

Programming (Java)

Advanced Programming (Java)

Internet Technology (Python / Django)

Algorithms and Data Structures (Java)

Enterprise Cyber Security

Systems and Networks (Assembly)

SKILLS

PROGRAMMING

Full Working Proficiency:

Python - Pandas, Django, ReportLab

Java - Spring Boot / Data JPA, Kotlin

JavaScript - Node.js, TypeScript

SAS - SAS BASE Certified (2016)

SQL - Postgres, SQLite, MSSQL

Kotlin (Android) • HTML/CSS • \LaTeX •

Git • Terminal

Familiar - Over 1000 lines:

Rust • R • Assembly • Clojure

MANDARIN CHINESE

HSK-4 (Studying for HSK-5)

Organises a weekly Mandarin Meetup

Group in Glasgow with 350+ members.

EXPERIENCE

MINISTRY OF JUSTICE | FULL STACK SOFTWARE DEVELOPER

Oct 2021 - Present

- Working on the Publications and Information project at HMCTS.
- Developing Spring Boot microservices and REST APIs.
- Frontend is Node.js / Express and Gov.uk Design System from GDS.
- Integrating complex systems architecture - Azure Blob Storage, Postgres / Hibernate / TestContainers, Redis, Kubernetes, Docker, Jenkins CI/CD.
- Unit/Functional/Integration Testing: Mockito / WebDriver.io / Selenium / Jest

NHS SCOTLAND | SENIOR DATA ANALYST

May - October 2021

- Design, automation and delivery of vital reports and ad-hoc analyses across 5 of Scotland's largest NHS boards from chemotherapy prescribing data.
- Accuracy-centric environment where extremely clean, well documented and robust code was required for audit trails.
- Worked with the Python data analysis stack (Pandas / Numpy / Matplotlib etc) along with Reportlab and Xlsxwriter.

NHS GREATER GLASGOW AND CLYDE | DATA ANALYST

Aug 2018 - May 2021 | Glasgow

- Workforce data analysis for UK's largest health board (40k+ employees).
- Designed and built the process for producing automated analyses of NHS absence for the Scottish Government.
- Automated several pieces of work for other departments which saved thousands of working hours.
- Moved several major pieces of cross-department work out of spreadsheets and into Python.
- Python data analysis stack for data.
- Automation and distribution using Selenium, ExchangeLib, Django

IMPERIAL COLLEGE LONDON | RESEARCH ASSISTANT

Sep 2015 - July 2017 | London

- Worked under Prof. Paul Aylin and Prof. Alex Bottle at the Dr Foster Unit.
- Developing Safety Indicators from linked hospital/GP (CPRD) data.
- Two conference presentations and a first author publication (shown below).
- Developed entirely using SAS and R in an ISO-27001 air-gapped environment.

PUBLICATIONS

RETROSPECTIVE ANALYSIS OF THE NATIONAL IMPACT OF INDUSTRIAL ACTION BY ENGLISH JUNIOR DOCTORS IN 2016

Feb 2018 | BMJ Open | DOI: 10.1136/bmjopen-2017-019319

Furnivall D, Bottle A, Aylin P

MOTOR ACTIVITY AT AGE ONE YEAR DOES NOT PREDICT ADHD AT SEVEN YEARS

Mar 2014 | Int J Methods Psychiatr Res. | DOI: 10.1002/mpr.1436

VERY EARLY OBSERVATIONAL PREDICTORS OF PSYCHIATRIC DISORDER

May 2012 | Arch. Dis. Child. | DOI:10.1136/archdischild-2012-301885.147

Allely et al