# DAVID KAVANAGH

**Full stack senior product/software engineer**

## Personal Information

**Email:** davykavanagh@gmail.com **Phone Number:** +44 7414023126
**Github:** https://github.com/DavyK **Website:** https://davy.tech/

## Work Experience

Feb 2024 - Present: Software Engineer, Pavlov, London
**Role:** Working as only 1 of 3 engineers, I touched every part of the stack. Over the last 10 months, I rewrote large parts of the frontend to be more reusable; designed, implemented and migrated some of our existing workflows to a more generalized state machine approach. I built integrations for slack and for segment.io.
**Technologies used:** Python, Django, GraphQL, Graphene, Typescript, React, Apollo, Postgres, Redis, AWS.

### Nov 2018 – Feb 2024: Senior Product Engineer, Intercom, London

**Role:** Leading the team in delivery of complex multi-quarter projects. Cross-functional collaboration with product and design. Communicating project timelines to leadership. Managing rollout to thousands of customers. Designing and building product features across the backend and frontend. Iterative performance improvement of many existing features.
**Technologies used:** Ruby (rails), Javascript (Vanilla, Ember JS, React), databases (Mysql, Mongo, Aws Redshift, Elasticsearch, Redis). **Other tools:** Git, Github, Python (for data analysis), Docker, docker-compose, data-dog, honeycomb.

### Apr 2016 – Nov 2018: Software Developer, Oxford Nanopore Technologies, Oxford, UK

**Role:** Full stack development of several different data tracking and reporting micro services. Decommissioned perl monolith and replaced with several different microservice APIs and frontend applications to capture and report on diverse data sources.
**Technologies used:** Python (django, flask), Javascript (Node, React, Redux), Uwsgi, Nginx, databases (MySQL, Postgresql, MongoDB, Redis, Elasticsearch), **Other tools:** Celery, Docker, Docker-compose, Docker-swarm, Git, GitLab CI, Kibana, Grafana, Prometheus.

### September 2014 – April 2016: Postdoctoral Fellow Icahn School of Medicine at Mount Sinai, NY, USA

**Role:** Genetic and genomics research into adult psychiatric disorders. Designed, implemented, tested and deployed a suite of data processing, analysis and visualisation tools for various data types, in a high throughput distributed environment. **Technologies used:** R, python (django, numpy, scipy, pandas), javascript (jquery, jquery-ui), databases (postgres, MongoDB), Git.

### June 2012 – August 2014: Postdoctoral Research Associate Cardiff University Cardiff, Wales, UK

**Role:** As above.

## Education

**2015 – 2106:** Full stack Web Developer Nanodegree https://www.udacity.com
**2009 – 2012:** PhD in Genetics and Bioinformatics Queens University Belfast, Co. Antrim, Northern Ireland
**2008 – 2009:** MSc. Molecular Medicine Queens University Belfast, Co. Antrim, Northern Ireland
**2002 – 2006:** BSc. Single Honors NUI Maynooth, Co. Kildare, Ireland

## References:

References are available on request.