

# Edmond O'Flynn

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A talented full-stack software engineer with 7 years of industry experience. A demonstrated history of team leadership and cross-platform product development in JavaScript & TypeScript using NodeJS & React.

## Skills

**Languages:** JavaScript, TypeScript, Java, Kotlin, Python, Ruby, Shell

**Frontend:** React, NextJS, React Native, HTML, CSS, SCSS, Styled Components, Webpack, Babel, Android SDK

**Backend:** NodeJS, NestJS, Koa, ExpressJS, SQL, MongoDB, REST, GraphQL, Apollo Federation

**Testing:** Jest, Mocha, Chai, TDD, BDD, E2E, Cypress, Supertest

**Other:** Git, Docker, RabbitMQ, Kafka, Linux, distributed microservices, monorepo, monolith

## Work Experience

### Senior Full Stack Software Engineer

08/2020 - now

aaqua

Antwerp, Belgium

- Implemented a real-time websocket microservice for broadcasting 250K+ events per hour to clients.
- Implemented a misspelling-tolerant text search engine using Apache Lucene to return results within 300ms.
- Deprecated a legacy monolith API gracefully to maintain backward compatibility and worked with teams to split it into 25+ microservices with stitched federated GraphQL subgraphs using Apollo Federation.
- Technologies: TypeScript, React Native, Koa, Mocha, Jest, Java, Spring Boot, JUnit, Neo4j, Protobuf, Apollo Federation, GraphQL, Docker, Kafka, Kubernetes, ArgoCD, Terraform, Domain-Driven-Design.

### Senior Front End Engineer, Team Lead

11/2019 - 07/2020

Sortlist

Brussels, Belgium

- Introduced and improved development processes (technical specs, post-mortems) to reduce incidents by 4x.
- Organised team innovation days, mentored junior devs, held workshops on topics (TDD, TypeScript, SOLID).
- Rotated a scrum master role, rotated a release manager role with Agile Release Trains.
- Introduced automated testing on legacy codebases with Jest, Enzyme & Cypress with 0% coverage.
- Led an R&D project to transition from AngularJS to React with TypeScript using NextJS.
- Technologies: NextJS, NodeJS, ExpressJS, AngularJS, TypeScript, GraphQL, PostgreSQL, Jest, Enzyme, Docker.

### Contract Software Engineer

01/2019 - 10/2019

devfair

Remote

- Communicated effectively with clients and teams to define requirements and specifications for projects.
- Implemented a resource ledger/management platform for environmental restoration in rural Kenya.
- Collaborated in cross-functional teams spanning API development and frontend (web, Android and iOS)
- Technologies: Java, Kotlin, Swift, React, NodeJS, JavaScript, MySQL, MongoDB, Jest.

### Software Engineer

02/2018 - 01/2019

Swrve

Dublin, Ireland

- Reduced MySQL query latency by 20x within GraphQL field aggregation, reducing one from 6s to 300ms.
- Supported a migration from REST to GraphQL, retrieving information from 5+ microservices.
- Supported a migration from Ember to React in a dashboard redesign project to display ad campaign metrics.
- Technologies: Ruby on Rails, Java, Scala, GraphQL, React, Jest, Selenium, RSpec, MySQL.

## **Co-Founder, Chief Product & Technology Officer**

**04/2015 - 12/2017**

GlassByte

Dublin, Ireland

- Co-managed the business, focused on product development while taking on the roles of CPO/CTO.
- Implemented a platform for clinical trial orchestration to assist a hospital with data ingestion pipelines, reducing the time involved for trial investigators to collect participant data from days to minutes.
- Designed and architected client solutions, partook in UI/UX research, aided in hypothesis testing processes.
- Technologies: Java, Swift, Python, Flask, NodeJS, JavaScript, jQuery, ExpressJS, MySQL, MongoDB.

## **Machine Learning Software Engineer Internship**

Accenture Innovation Labs

## **Education**

### **Computer Engineering**

**II.I result (equivalent to A-)**

University of Dublin, Trinity College

Dublin, Ireland

Bachelor of Engineering undergraduate degree with a double diploma in mathematics.

## **Projects**

### **Drynk - alcohol insights app**

- The user adds drinks and the app works out state projections to aid judgement and consumption insights.
- This improves making decisions about when to stop consuming alcohol and how it affects health long term.
- The API consists of a number of microservices to calculate user timelines, statistics, and health insights.
- Technologies: Kotlin, Java, JUnit, TypeScript, GraphQL, PostgreSQL, NestJS, Bull, Docker, microservices, NextJS

### **Open-Source Proof of Concept ORM**

- A pseudo-relational layer on top of MongoDB written in TypeScript to quickly iterate on personal projects.
- Aim was to bridge the gap between relational databases and the flexibility of document-based data stores.
- Technologies: TypeScript, MongoDB, Jest, Webpack

### **Open-Source Snapchat Filters**

- A research paper was written resulting from work done on the topic Orthogonal Procrustes in linear algebra.
- A webcam feed is processed and applies 3d graphics from 2d pose markers using facial landmarks.
- Simulated filters included object rasterisation on pose, face swap, and light occlusion.
- Technologies: Python, OpenCV

## **Languages**

English, Irish, German, Dutch, French, Polish

## **Awards**

Received a *New Frontiers Phase 1* scholarship to build business development skills in DCU, Ireland

Achieved first place in the hackathon *Hackathon na Gaeilge* organised by UCD, Ireland.

1 of 10 in Ireland to receive the *Huawei Seeds of the Future* scholarship to spend a month in China