



# Justyna Gredecka


## Full Stack Software Engineer


I'm a Software Engineer with experience developing modern web applications using primarily JavaScript/TypeScript and Python. I'm skilled at both team collaboration and working on my own initiative in a fast-paced Agile environment. I enjoy solving user-focused problems in a data-driven environment, and I'm strongly motivated by the desire to improve and learn new skills as part of my own ongoing growth.

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## WORK EXPERIENCE

### Full Stack Software Engineer - Healx

11/2020 - present

Tech stack: TypeScript, Python, GraphQL, React, Flask

- Led a **data visualisation project** by parsing external source data, designing and implementing the database models as well as the GraphQL API schema, queries and mutations.
- Drove **codebase modernisation** by splitting the React frontend and Flask backend into two standalone applications resulting in an **improved overall developer experience**.
- Worked closely with UX designers to **improve user experience** by implementing various Material-UI based components across our products resulting in fewer page pauses and rage-clicks.
- Stakeholder management with internal users and product managers when working on new features to **maximise user satisfaction** by better understanding and **refining user requirements**.
- **Rapidly developed new skills** to perform cross-functionally with data engineers in efforts to migrate the current data source of the product from a PostgreSQL database to an in-house data platform centre.
- Helped **accelerate company growth** by participating in behavioural and technical interviews.

### Full Stack Software Engineer - CCG.ai

11/2019 - 09/2020

Tech stack: JavaScript, Python, React, Electron, Flask-RESTful

- Implemented a SSO feature using Electron and React enabling users to log in to the desktop app directly from the web application **reducing login journey from 4 clicks to 1** through focus on user-experience.
- Designed, built and continuously tested new CRUD REST API endpoints.
- Focused on tech debt improvements via refactoring legacy code resulting in a more **maintainable** and **readable codebase**.
- **Increased back-end test coverage** by adding new Python unit and integration tests.
- Acted on customer feedback and delivered an urgent feature implementing raw dataset downloads from AWS S3 resulting in a more **optimised user workflow** and **reducing human toil**.
- **Improved customer communication** by automating order processing emails with AWS SES.
- Volunteered as a JavaScript **teaching assistant** during the 2020 *Camb.ai Code First Girls* programme.

## Research Assistant - MRC LMB

10/2015 - 08/2018

- Generated, analysed and reported scientific data.

## EDUCATION

### MSc Bioinformatics (Distinction)

09/2018 - 10/2019

Queen Mary University of London

- Syllabus included Python programming, web development, data structures and machine learning.

### BSc Biomedical Science (First Class)

09/2012 - 09/2015

Anglia Ruskin University

## SKILLS SUMMARY

<b>Languages</b>	Python   JavaScript   TypeScript   HTML   CSS
<b>Web development</b>	React   Electron   Flask   GraphQL   REST
<b>Frontend Tools</b>	Webpack   Redux   Jest   Material UI   Bootstrap
<b>Backend Tools</b>	SQLAlchemy   Alembic   Pytest   Celery   Boto3
<b>Cloud Computing</b>	AWS (S3, Elastic Beanstalk, SES)
<b>Databases</b>	SQL: PostgreSQL   NoSQL: Redis   DynamoDB
<b>Data Science</b>	Pandas   NumPy   Seaborn   Matplotlib
<b>Version Control</b>	Git/GitHub

## PERSONAL PROJECTS

### KSEAPlus (university project)

- Web application that implements algorithms for the quantification of protein activity from experimental data. Built with **Flask**, **Redis** and **Celery** for background data analysis and report generation.

- [Demo](#) and [source code](#) available

### PDBParser (university project)

- Python script for analysing and visualising protein structural information from Protein Data Bank files.

- [Source code](#) available