



# 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

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

## PERSONAL PROJECTS

### Memory

- Single-player browser game based on the educational card game 'Memory'. Built with **TypeScript**, **React** and **styled components**.

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

### 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