

# JUSTYNA GREDECKA


**Email:** [justynagredecka@outlook.com](mailto:justynagredecka@outlook.com)  
**Website:** <https://jgredecka.github.io>  
**Github:** <https://github.com/jgredecka>  
**LinkedIn:** <https://www.linkedin.com/in/gredecka>  
**SO:** <https://stackoverflow.com/users/10213506/jgredecka>

## PROFILE

Full Stack Software Engineer with experience developing modern web applications using backend and frontend frameworks/libraries including React.js, Flask and Django. Skilled at team collaboration and working on own initiative in a fast-paced Agile environment. Enjoys designing and implementing creative solutions to complex problems and is always interested in learning new technologies.

## EMPLOYMENT HISTORY


### Cambridge Cancer Genomics, Cambridge, UK

 (Nov 2019 - current)

#### Full Stack Software Engineer

- Contributed to the development of OncOS, a precision oncology web-based platform using React.js and FlaskRESTPlus.
- Helped implement new features in OncOS desktop app using Electron and React.js technologies.
- Designed and implemented new REST API endpoints and their functionality.
- Wrote tests for new API endpoints and helped to expand existing test coverage.
- Refactored legacy code and fixed backend/UI bugs improving the consistence and reliability of the existing codebase.
- Participated in code reviews improving ability to critically read other peoples' code.
- As an Agile team member, took part in daily standups, sprint-planning and retrospective meetings.
- Volunteered as a JavaScript assistant for Camb.ai Code First Girls: Introduction to Web Development 2020 programme.

### MRC Laboratory of Molecular Biology, Cambridge, UK


 (Oct 2015 - Aug 2018)

#### Research Assistant

- Worked independently and as part of a team to generate, analyse and report high-throughput genotyping data, developing an excellent attention to detail, communication and teamwork skills.

## EDUCATION

### Queen Mary University of London, London, UK

 (Oct 2015 - Aug 2018)

#### Master of Science in Bioinformatics (Distinction)

- Coursework covered Python programming, web development, HPC and machine learning in R.
- Developed the web application *KinBase* as part of a software development group project.

- For a final project, developed the web application *KSEAPlus*, improving ability to work independently.

🏰 **Anglia Ruskin University, Cambridge, UK**

📅 (Sep 2012 - Jul 2015)

🎓 **Bachelor of Science in Biomedical Science** (First Class)

- Developed solid numerical and analytical skills.
- Practised teamwork, written and oral communication skills by participating in group projects and poster presentations.

## TECHNICAL SUMMARY

---

<b>Languages</b>	Python, JavaScript (ES5, ES6), HTML5, CSS3, Bash
<b>Web Development</b>	<b>Frontend:</b> React.js, <b>Backend:</b> Flask, FlaskRESTPlus, DjangoREST
<b>Web Dev Tools</b>	redux, Bootstrap, MaterialUI, Styled Components, Celery, RQ, SQLAlchemy
<b>Cloud Computing</b>	<b>PaaS:</b> Heroku, PythonAnywhere, <b>IaaS:</b> AWS
<b>Databases</b>	<b>SQL:</b> PostgreSQL, SQLite, <b>NoSQL:</b> Redis, DynamoDB
<b>Data Science</b>	pandas, NumPy, seaborn, matplotlib, pyplot, SciPy
<b>Version Control</b>	Git/GitHub
<b>O/S</b>	UNIX (Mac OS X, Linux) and Windows
<b>Big Data Analysis</b>	High Performance Computing (HPC)

## PROJECT HIGHLIGHTS

---

**KSEAPlus** (web application)

- Implements algorithms for the quantification of protein kinase activity from experimental data. Built with Flask and Celery coupled with Redis for running background analyses.
- Demo: <https://ksea-plus.herokuapp.com>
- Source code: <https://github.com/jgredecka/KSEAPlus>

**KinBase** (web application)

- Resource for finding protein and protein inhibitor information. Built with Flask, SQLite database and SQLAlchemy used as an ORM.
- Demo: <https://kinbase.pythonanywhere.com>
- Source code: <https://github.com/jgredecka/KinBase>

**PDBParser** (Python script)

- Allows for analysing and visualising protein structural information from Protein Data Bank files.
- Source code: <https://github.com/jgredecka/PDBParser>