

Aleksandra Kulbaka

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EMPLOYMENT

Full-Stack Software Developer,

Theodo UK, London, Oct 2021 –

- Providing consulting advice and developing software for clients using front-end and back-end technologies including React, React Native and Django,
- Contributing to the company growth by organising weekly company training sessions.

Extreme Blue Technical Leadership Intern,

IBM, Hursley, Jun 2021 – Sep 2021

- Chosen as one of 16 students for intern with an acceptance rate of 2%,
- Created intelligent chatbot for data analysis and visualisation that used data from the Mayflower, first fully-autonomous ship, to educate people about data science and ocean exploration,
- Presented work on the conference to University Professors and Mayflower sponsors.

Junior Software Engineer,

Quidco, Sheffield, Dec 2019 – May 2020

- Contributed to software architecture by creating RESTful APIs Applications using PHP, Laravel, Composer,
- Optimised existing company code using Vue.js framework with TypeScript, HTML and CSS.

RELEVANT EXPERIENCE

Computer Science Demonstrator,

University of Sheffield, Sep 2020 - Jun 2021

- Selected from more than 500 of Undergraduate and Postgraduate students to help the first year students in the following modules: Foundations of Computer Science, Introduction to Algorithms and Data Structures, Introduction to Programming and Problem Solving, Java Programming,
- 100% of students passed the final exams, some achieving the highest marks on the year.

Programme Developer,

Enactus Sheffield, Jul 2020 - Jun 2021

- Volunteered to prepare and deliver Python course for 300 students with no experience in programming.

Google Get Ahead 2020 Program,

Google, Online, Jun 2020 – Aug 2020

- Got elected as one of 500 people from all over the world to participate in an invite-only Google program to develop technical skills and learn about employment opportunities at Google.

EDUCATION

BSc Artificial Intelligence and Computer Science,

University of Sheffield, UK, Oct 2018 – Jun 2021

- First-Class Honours with 84% average mark,
- Selected from over 200 students for Computer Science Academic Achievement Scholarship for academic excellence,
- *Relevant modules*: Advanced Algorithms (100%), Functional Programming (99%), Web and Internet Technology (87%)
- Dissertation: *'Rigorous Runtime Analysis of Evolutionary Algorithms for the Nonogram NP-hard Problem'*.

PROJECTS

Multi-Layer Neural Network, Feb-Mar 2021 ,

Python (NumPy)

- Implemented the Artificial Neural Network to classify handwritten letter images,
- Developed Neural Network to achieve higher accuracy than the one described by the authors of the database,
- Obtained one of the highest marks (84.5%) and the PhD offer from this module.

OCR System, Dec 2019,

Python (NumPy)

- Created valid OCR system which correctly recognises more than 93% of characters on clean and more than 40% of characters on noisy unreadable pages.

InterX , Nov 2019

Node.js, Java Script, Bootstrap, MongoDB, React

- In 24h in team of 3, created the web application which checked medicines (typed by user) for any negative reactions between them,
- Obtained an award for the 3rd best Hack.

COURSES AND CERTIFICATES

IBM Quantum Conversations, IBM Python for Data Science and Data Analysis, AWS Machine Learning Foundations, Stanford Algorithms course, Code First: Girls 'Python for Web Development', Python3: Deep Dive, Google FooBar Challenge.

TECHNOLOGIES

Programming languages: JavaScript, TypeScript, Python, Java, Haskell, HTML, CSS, Ruby, C++, PHP,

Web Technologies: React, Vue.js, Bootstrap, Flask, Node.js, Express, SQLite, MySQL, MongoDB, GraphQL,

Other: Node-RED, Watson Assistant, React Native.