

# Aleksandra Kulbaka

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## EDUCATION

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### MComp Artificial Intelligence and Computer Science

University of Sheffield, UK, Oct 2018 – Jun 2022

- First Class Mark during first year (82%) and second year (81%),
- Selected from over 200 students for Computer Science Academic Achievement Scholarship for academic excellence and obtaining first-class mark during first year,
- Relevant modules: System Design and Security, Java, Advanced Algorithms, Web & Internet Technology, 3D Graphics,
- Dissertation topic: '*Rigorous Mathematical Runtime Analysis for Bio-Inspired Optimisation*'.

### Profile with advanced Mathematics, Physics, Computer Science

XXI Secondary School in Lublin, Poland, Sep 2015 – Apr 2018

- Exam results: Advanced Mathematics – 96<sup>th</sup> percentile, Physics – 95<sup>th</sup> percentile, Advanced English – 93<sup>th</sup> percentile,
- Selected twice from thousands of students for Polish Prime Minister's scholarship for high-achieving individuals in overall academic performance in 2017 and 2018.

## INDUSTRY & VOLUNTARY EXPERIENCE

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### Computer Science Demonstrator

University of Sheffield, UK, Sep 2020 -

- Got selected from around 500 of UG and PG students to help the first year students in modules: Java Programming, Foundations of CS, Introduction to Programming and Problem Solving.

### Programme Developer

Enactus Sheffield, UK, Jul 2020 -

- Prepared and delivered Beginner and Intermediate Python courses for students with no experience in programming,
- Managed and trained team of Mentors helping course students,
- Obtained 'Outstanding Contribution Award' out of 93 members.

### Google Get Ahead 2020 Virtual Program, Jun 2020 – Aug 2020

- Got elected as one of 500 people from all over the world to participate in an invite-only Google program.

### Sheffield Start-up Summer Workshops, Jun 2020

- Created and developed start-up solving problem of finding all the significant travel regulations during COVID-19 pandemic,
- Selected as one of 3 teams to pitch our idea to the Funders panel.

### Junior Software Engineer

Quidco, UK, Dec 2019 – May 2020

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

## PROGRAMMING LANGUAGES AND FRAMEWORKS

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Python, Haskell, Java, Vue.js, Ruby, HTML, CSS, JavaScript, SQLite, MySQL, React.js, C++, PHP

## TOOLS

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Bitbucket, GitHub, GitLab, Linux, Microsoft Office, Visual Studio Code

## PROJECTS

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TrvlSafe, Jun 2020 – Oct 2020

Python, Flask, HTML, CSS, JS, csv

- Worked in team of 5 to design and develop start-up,
- Created web app to check for newest government travel regulations.

OCR System, Dec 2019

Python (NumPy)

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

InterX at HackSheffield, Nov 2019

JS, Node.js, React, MongoDB

- In team of 3, created the web app checking for reactions between different drugs,
- Obtained the award for the 3<sup>rd</sup> Best Hack.

Tweet A Ride, Oct 2018 – May 2019

Ruby, SQLite, HTML, CSS, JS

- Led a team of 7 to design and develop fully functioning software product.

## COURSES & CERTIFICATES

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- AWS Machine Learning Foundations,
- Python3: Deep Dive,
- Stanford Algorithms course,
- Code First: Girls 'Python for Web Development'