

# Alexandra Stropova

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## EDUCATION

### University of Glasgow

Sept 2019 – May 2024

*Master of Science in Computing Science*

- **Awards:** Prize for the best Level 3 Honours Team Project awarded by the School of Computing Science

## EXPERIENCE

### Publicis Sapient

Jul 2022 – Sept 2022

*Software Engineering Intern*

- Developed a data streaming backend process for a web app using Java and Apache Beam framework on Google Cloud Platform
- Participated in a fullstack fundamentals Knowledgehut training including microservices, devops and cloud services

### University of Glasgow

Sept 2021 – May 2022

*General Teaching Assistant*

- Laboratory group demonstrator for Computing Science undergraduates for classes on DB Management, SQL and Python

### Goldman Sachs

Nov 2021

*Forage Engineering Virtual Program*

- Cracked leaked password database using Hashcat, analysis on hashing algorithms, protection level and password policy

### U.S. Steel

Jun – Sept 2019

*Database Developer Intern*

- Modeled and organized data using Power BI Microsoft, Toad for Oracle utilizing SQL and DAX languages
- Produced data visualisations of the internal server communication load and bandwidth in a team with senior software developers

## PROJECTS

### UI Consistency Checker | JavaScript, Google Chrome

- Developed a browser extension to check for user interface consistency based on given criteria e.g. fonts, colours, borders

### Event Simulator | Python, PyCharm

- Implemented algorithms e.g. Round Robin or Shortest Job First to simulate the scheduling/dispatching of processes using OOP

### Pokémon Battle | Java, Eclipse

- Implemented a game using the Swing GUI framework and multi-threading to visualize simulations of monster battles

## EXTRACURRICULAR ACTIVITIES

### Glasgow University Society For Women in Tech +Allies

Aug 2021 – May 2022

*Vice President, Student Ambassador*

- Lead career oriented workshops in collaboration with partners including Goldman Sachs
- Secured 80% of overall funding by recruiting sponsors and helped to increase the member platform by 40%

### Google

Jul– Aug 2021

*Get Ahead Program participant*

- Solved weekly challenges by writing Java programs focused on dynamic programming and data structures e.g. trees, 2D arrays

### Glasgow University Tech Society

Oct 2019

*Do You Have The GUTS Hackathon competitor*

- Demoed an app for confirming attendance at an event, integrated message confirmation protocol using Twilio's API in Python

## SKILLS

### Technical

**Programming languages:** Python, Java, SQL, JavaScript, HTML, CSS, x86 assembly, DAX

**Tools:** Git, Linux, Google Cloud Platform, Docker, Virtual Box, Bash, Spring,  $\text{\LaTeX}$ , Django, Power BI Microsoft, Eclipse, Atom, PyCharm, Jupyter, MySQL, Toad for Oracle, Figma, everyday graphical applications e.g. MS Office, Trello, Asana, email

### Languages

English, Slovak, Czech: fluent

## PERSONAL FACTS

I'm a ski instructor • There's an apple tree growing in my room • I use Spotify for communicating