

# Illia Borshch

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## TECHNICAL SKILLS

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**Languages:** Python, C++, SQL (MySQL), JavaScript, HTML, Go

**Frameworks:** FastAPI, OutSystems, Selenium, Django

**Other Skills:** Git, Docker, Redis, Celery, Algorithms & Data Structures, Leetcode (430+ problems solved)

## EXPERIENCE

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### Software Engineer Intern

June 2023 – Present

*Optimised Group*

*Bristol, UK*

- Implemented a Chat-Bot support in our internal company application by leveraging the ChatGPT 4.0 Assistant model through the OpenAI REST API.
- Developed a CRUD app for engineering bills and sensors using OutSystems, Javascript & Azure SQL for storing extensive volumes of data and handling +20,000 resource-intensive requests on a daily basis.
- Implemented from zero PowerBI migration with our app using PowerBI JavaScript API. This update has notably enhanced the user experience and has opened up a new opportunity for our team to effectively manipulate Gigabytes of incoming data.
- Designed and built Microsoft SSO solution, using the Microsoft API. This effort not only positively impacted user experience, but also achieved an impressive 30% reduction in login-related security incidents.
- Worked with SMTP, IMAP, OAuth2 protocols, OutSystems framework, Python, Pandas, JavaScript. Learned about Azure SQL Database server, data engineering and web-development best practices.

## PROJECTS

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### Twitch Dota 2 Bot. | *Python, FastAPI, MySQL, TwitchIO, Selenium, Docker*

May 2023 – July 2023

- Developed a *dotabuff.com* parser/scrapper to retrieve public Dota 2 information using Selenium and Python.
- Built a Twitch Bot that interacts with the Twitch API using the asynchronous Python TwitchIO library.
- Designed and created REST API using FastAPI which participates as a link between Web App and Twitch Bot.
- Designed system architecture of Web Application for users to setup and change bot settings.

### CRUD REST API. | *Python, FastAPI, SQLite, Flower, Celery, Redis*

April 2023 – May 2023

- Created REST API CRUD application based on blogs using FastAPI framework. User can publish, edit, delete and read blogs.
- Get familiar with Redis DB technology and caching. Implemented caching which largely enhanced efficiency by reducing use of heavy DB queries.
- Successfully established robust security by integrating both the OAuth2 and JWT-Token protocols for authorization.
- Implemented background tasks logic using Flower + Celery. Used background-tasks pattern in combination with SMTP protocol to allow users to engage with email system.

### TO-DO List | *Python, Django, SQLite, HTML, CSS, JavaScript*

Nov. 2023 – Dec. 2023

- Solo built Web "TO-DO List" application from scratch using Django, leveraging its ORM capabilities and following the Model-View-Controller (MVC) design pattern.
- Developed CRUD SQL operations for Blog and User models. Worked with HTML, CSS, JavaScript and Python Jinja3 to create user-friendly UI/UX.
- Implemented secure authorization by employing both the OAuth2 and JWT-Token protocols.

## EDUCATION

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### St. Brendan's Sixth Form College

Bristol, UK

*Computer Science, Mathematics, Further Mathematics*

*Sept. 2023 – Present*

## AWARDS

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**Senior Maths Challenge 2023** | *Silver Diploma*

**Kyiv Mathematics Olympiad 2020** | *Gold Diploma*