Illia Borshch

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TECHNICAL SKILLS

Languages: Python, C++, SQL (MySQL), JavaScript, HTML, Go
Frameworks: FastAPI, OutSystems, Selenium, Django
Other Skills: Git, Docker, Algorithms & Data Structures, Networking, Leetcode (400+ problems solved)

EXPERIENCE

Software Engineer Intern — June 2023 – Sept. 2023
Optimised Company — *Bristol, UK*

- Developed a CRUD app for engineering bills and sensors using OutSystems, Javascript & Azure SQL for storing extensive volumes of data and handling more than 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 manage Gigabytes of 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 Server, trunk-based development and web-development best practices.
- Communicated and worked together with a team of software engineers and data engineers. Learned about work management with the team using Jira software.

PROJECTS

Twitch Dota 2 Bot. | *Python, FastAPI, MySQL, TwitchIO, Selenium, Docker* — May 2023 – July 2023

- Developed a *dotabuff.com* parser/scraper 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.
- Created design and 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 FastAPI CRUD application based on blogs. User can publish, edit, delete, like blogs.
- Used Redis for the first time. implemented cashing which enhanced efficiency of heavy DB queries.
- I have successfully established robust security measures by integrating both the OAuth2 and JWT-Token protocols for authorization.
- Implemented background tasks using Flower + Celery. Created background task which sends auth-confirmation email using SMTP protocol.

TO-DO List | *Python, Django, SQLite, HTML, CSS, JavaScript* — Nov. 2023 – Dec. 2023

- 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. I also collaborated with HTML, CSS, JavaScript and Python Jinja3 to handle the front-end development.
- Implemented secure authorization by employing both the OAuth2 and JWT-Token protocols.
- On my own, conceptualized and executed social media-style functionalities, enabling users to establish public profiles, search for other users' profiles, and engage in task sharing.

EDUCATION

St. Brendan's Sixth Form College — Bristol, UK
Computer Science, Mathematics, Further Mathematics — *Sept. 2023 – Present*

AWARDS

Senior Maths Challenge 2023 | *Silver Diploma*
Kyiv Mathematics Olympiad 2020 | *Gold Diploma*