Augusts Zilakovs

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EDUCATION

Western University   London, ON
BESc, Software Engineering   Sept 2020 - Apr 2025
- *Relevant Courses*: Data-Structure and Algorithms, Database Management Systems, Software Design and Construction, Computer Networking, Discrete Math, Scripting Programming Languages.

PROJECTS

Group Pay [**Github Repo**]

- Developed a full stack application that keeps track of individual contributions to a group payment.
- Implemented a user login system, user authentication, complete backend with 30+ endpoints, small screen support, and data graphics.
- **Utilized**: Python, FastAPI, Docker, Javascript, HTML/CSS, React, MySQL

FB2 Book File Manager [**GitHub Repo**]

- Developed a book management software that reads, saves, organizes, manages, and edits XML files in the fb2 format.
- Implemented user friendly UI, file editing and saving, file searching, image encoding and decoding for efficient BLOB storage, both zipped and unzipped folder scanning, batch file editing/saving, and ability to change how data is displayed.
- **Utilized**: C#, SQLite

Forged Alliance Forever (Open-Source Contribution) [**GitHub Repo**]
- Worked in a team of developers implementing numerous unit and game engine updates.
- Optimized game engines navigational mesh generation speed by 10%, reducing loading times for slower systems.
- **Technologies Used**: Lua

Jump King Pygame Remake [**Github Repo**]
- Worked in a team of four to develop a remake of the popular game Jump King using Pygame
- Implemented gravity, vertical scrolling, character selection and customization, level selection, and level importing,
- **Technologies Used**: Python, Pygame, Tiled

Beehive Monitoring System [Engineering Project]
- Worked with a team to design and build a cheap and cost-efficient beehive monitoring system that measures temperature, weight, and humidity for under $20.
- Implemented an automated alert system which notifies beehive owners and stores said data when any measurement is not withinspecific thresholds.
- **Technologies Used**: C, Arduino

Work EXPERIENCE

LSC   London, ON
Assistant Ski Coach   Jan 2023-Mar 2023
- Assisted main coach in instructing intermediate downhill skiers while ensuring that students follow the implemented safety guidelines.
- Assisted main coach in lesson planning and racetrack setup.

GAO Tek   Toronto, ON
Tech Support Intern   May 2022-Aug 2022
- Led a team of six interns to write company product descriptions for the company website.
- Led weekly meetings and progress reports where interns' work was reviewed and critiqued.
- Participated in a team to learn the Kotlin programming language for android application development.

Sobeys   Richmond Hill, ON
Deli Clerk   Sept 2020-Feb 2021
- Served, prepared, cooked, and managed both hot and cold foods.
- Worked in a team in a fast-paced customer service environment.

Languages: Proficiency in English, Russian (Speaking)

Skills: Python, C, C#, Java, JavaScript, HTML/CSS, Docker, MySQL, SQLite, React, Git, Kotlin, Figma, NodeJS, ExpressJS, Figma