ALI AFZAL

Student ~ ELTE

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SUMMARY

I am currently a BSc student at Eötvös Loránd University with a keen interest in Software Engineering. I am also working as an OOP Demonstrator at the University. I am passionate about new technologies and always open to acquiring new knowledge

SKILLS

Languages: Java, C/C++, C sharp, SQL, Swift, VBA, Python, JavaScript, HTML, PHP, GoLang, Haskell.

Other: .Net, Apache Jmeter, REST API, Unity Engine, Good knowledge of Algorithms and Data Structures.

EDUCATION

2021 - 2025 **BSc Computer Science** — **Eötvös Loránd University, Budapest - HU**
Ongoing, Bachelor's Degree on Stipendium Hungaricum Scholarship

2016 - 2020 **High School Diploma** — **CISCE, New Delhi - IN**
GPA of 3.39 out of 4

EXPERIENCE

8/2023 – 2/2024 **Reporting Team - Intern** — **Vodafone Intelligent Solutions - VOIS, Budapest - HU**

- Utilizing VBA in Excel to automate and enhance monthly and quarterly executive reports for senior leadership decision-making.
- Leading the transition from traditional Excel reports to a modern online dashboard format using Qlik Sense technology, ensuring seamless integration and data visualization.

2/2023 – 7/2024 **OOP Course Demonstrator** — **Eötvös Loránd University, Budapest - HU**

- Object Oriented Programming Lab Instructor
- Facilitating teaching responsibilities for Professor by designing and assessing challenging tasks, exams, and coursework in OOP course. Conducting student consultations, addressing inquiries, and explaining OOP concepts to enhance learning experiences.

LANGUAGES

English - C1, **Hungarian** - A1, **Hindi** - native, **Urdu** - native

PROJECTS

JAVA **Capitaly Simulation Game** — **github.com**
Simulation of a simplified Capitaly game, implementing diverse player strategies, property transactions, and chance events, with parameters read from a text file, allowing for efficient testing and providing detailed game outcomes, including the winning player's financial status and owned properties.

Rest API **Rest Mobile Phone** — **github.com**
REST-based application which can store and present information about mobile phones created using the FastAPI framework in Python. It uses Uvicorn server

C **Vineyard-Simulation** — **github.com**
A vineyard simulation application for efficient spring season worker management. Utilized inter-process communication techniques, including pipes and message queues, to coordinate worker transportation and provide real-time status updates. Demonstrated expertise in process management and signal handling in a Unix-like environment.

PHP **Polling Web Application** — **github.com**
A web application where logged-in users can create or cast their votes on polls (questionnaires/forms)

Concurrency **Pigs Simulation** — **github.com**
Designed and implemented a multi-threaded simulation in Java. Demonstrated expertise in concurrent programming and simulation design.

JavaScript **Light the Bulb Game** — **github.com**
A grid game developed using JavaScript

C++ **Atmospheric Gases** — **github.com**
Implemented a concise C++ program using design patterns to simulate atmospheric layer transformations influenced by changing conditions. Demonstrated proficiency in C++, Design Patterns, and File I/O.

JAVA

Labyrinth Game **github.com**

Created a Java Labyrinth game with JDBC integration for database connectivity and Java Swing for the GUI. Implemented dynamic gameplay with a moving dragon, tracked player statistics in a database, and provided features for displaying high scores.

JAVA

Hunting Game **github.com**

Developed a two-player Hunting Board Game with Java Swing GUI. Players strategically move characters on an adjustable board to either capture or escape.

Concurrency

Field Race Simulation **github.com**

Java program for a concurrent field race simulation with players and checkpoints. Implemented thread synchronization using ExecutorService, AtomicBoolean, and ConcurrentHashMap. Achieved dynamic scoring, periodic display, and program termination.

DSA

Custom Data types implementations **github.com**

Different datatypes implementation in C++

HTML/CSS

Home2Decor Website **github.com**

A small interior designer company website using HTML/CSS and Bootstrap 5