ILIA FATEMI

LinkedIn | GitHub | Email

Skills

Languages: Python, C/C++, SQL, HTML/CSS, NodeJS, Angular, TypeScript/JavaScript, Express JS, Kotlin, Java
Technologies & Tools: GCP, Microsoft Azure, IIS, Apache Server, Docker, VMWare, Linux, Git, CMake, NumPy, Pandas

Projects

So Bad It's Good **Jan - Apr 2023**
Web Application| Node.js, Angular, GCP, PostgreSQL

- Developed a bad movie review app with Angular and Node.js, hosted on Apache servers via GCP.
- Stored movie information to PostgreSQL using a third-party API from TMDB to retrieve movie data.
- Implemented RESTful APIs to create endpoints to get, post, and delete user data from the server.
- Rented a PostgreSQL database on GCP for server-side data storage.
- Utilized a GCP virtual machine to host the application on Apache2 with an external IP address.

Pig Tracker **Sep - Dec 2022**
Frontend Web Application | Angular, API, TypeScript/JavaScript

- Designed a webpage using Angular that allows farmers to track their lost pigs on a map.
- Implemented a TypeScript/JavaScript form to store user input in the browser local storage.
- Used the Leaflet API to create an interactive map that dynamically pinpoints areas upon form completion.
- Utilized API such as Hashify to encrypt passwords for users and store them in a storage.

Prison Escape **Jan - Apr 2022**
2D Maze Game | Java, Maven, JUnit

- Formulated a Scrum management framework with team members to plan the project.
- Created UML diagram to design the project and code architecture.
- Managed file directories with Apache Maven to streamline project builds, reporting, and documentation.
- Used Object-Oriented Programming in Java to create modular code for streamlined level design and UI functionality.
- Built different unit and integration tests to detect logic and runtime errors.

Movie Analysis **Apr - Aug 2024**
Data Analysis | Python, NumPy, Pandas

- Analyzed movie profitability using IMDb and TMDb data, focusing on factors like runtime, genre, and ratings.
- Cleaned and merged data from multiple IMDb files and fetched additional fields from TMDb API.
- Built a Random Forest model to predict movie revenue, achieving 74% accuracy on test data.
- Conducted statistical analysis, finding that runtime and genre significantly impact profitability.
- Addressed challenges in data grouping and feature importance to enhance model performance.

Education

Simon Fraser University **Jan 2021 - Current**
Bachelor of Science – Major in Computing Science