Larisa Turetskaia

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Education

University of London   London, UK
BSc Computer Science   *April, 2024 – Present*

Financial University under the Government of the Russian Federation   Moscow, Russia
BSc Economics   *Sep. 2016 – June 2018*

Projects

To-Do List   https://teapod.dev/todo-list/

- Developed a full-stack task management application with a responsive React frontend, leveraging reusable components and React hooks (useState, useEffect, useContext, useReducer) to manage complex state.
- Developed a RESTful API using Node.js, Express.js and MySQL to efficiently store and serve project and task data.
- Deployed the application on a DigitalOcean Droplet, managing the full software development lifecycle from initial build to production.

2D Side Scrolling Game   https://teapod.dev/side-scroller/

- Engineered a multilevel side scrolling game using P5.js and P5.Sound libraries, creating custom graphics and animations with the Canvas API to deliver an engaging user experience.
- Implemented complex game logic, including collision detection and score tracking, to create a fully functional and playable game.

Drawing App   https://teapod.dev/drawing-app/

- Built a web-based drawing application with P5.js library, enabling users to perform various drawing operations, import/export images and more.
- Optimized and implemented an efficient version of the four-way flood fill algorithm, which improved colouring performance by over 50% compared to a basic recursive approach.
- Extended the existing class structure of the initial project to incorporate more drawing tools and features.

Technical Skills

Languages: HTML, CSS, JavaScript, SQL
Frameworks and libraries: React, Node.js, Express.js, P5.js, P5.Sound
Developer Tools: Git, VS Code, DigitalOcean Cloud, Linux