

LARISA TURETSKAIA

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EDUCATION

University of London

BSc Computer Science

London, UK

April, 2024 – Present

Financial University under the Government of the Russian Federation

BSc Economics

Moscow, Russia

Sep. 2016 – Sep. 2019

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, setting up and configuring Nginx and MySQL and 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: JavaScript, Typescript, HTML, CSS, SQL

Frameworks and libraries: React, Express.js, Bootstrap, P5.js

Databases:: MySQL, MongoDB

Other: Node.js, Git, VS Code, DigitalOcean Cloud, Nginx, Linux