

VLAD YAREMCHUK

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EDUCATION

Honours in Bachelors of Science, Computer Science & Math double major + PEY Co-op

University of Toronto

Sept. 2022 – July 2027

- Courses: Software Design, Data Structures and Analysis, Theory of Computation, Software Tools and Systems Programming, Probability and Statistics, Linear Algebra, Calculus, Mathematical Proofs.

SKILLS

Technical: React, Node.js, Python, Java, C, HTML, CSS, JavaScript, TypeScript, REST API, Git & Github, AWS.

Professional: Communication and leadership, Active Listening, Adaptability, Problem solving, Time management.

EXPERIENCE

UML Mentor | *React, NodeJS, TypeScript, JavaScript, Bootstrap, MySQL*

Dec. 2023 – April 2024

Project Course

- Worked with a team of students to develop UML Mentor - a collaborative learning platform that offers a unique approach to mastering **software design** through practical challenges and peer feedback.
- Composed the project design document, planned out the milestones and **project architecture**.
- Presented the project document to professors, leading to UML Mentor being **adopted for teaching** a Software Design course at UofT.
- Drafted 31 unique software problems, each centered around specific software design patterns.
- Led the front-end development with **React** and backend API development with **Node**.
- Exercised communication skills by actively participating in **project meetings**. Contributed to maintaining a high-quality codebase through diligent participation in code reviews.

Game Server, Tiny Shell | *C*

Feb. 2024 – April 2024

University Projects

- Built a game server from scratch using sockets and **systemcalls**. The server allows multiple clients to simultaneously battle others in real time.
- Built my own implementation of a shell from scratch. Functionality includes: job management, command execution, input/output redirection, and command piping.

Flight Explorer | *Java, JavaFX, HTML, CSS, JavaScript*

Nov. 2023 – Dec. 2023

University Project

- Built an accessible application that allows users to search and graph real flight routes on the world map.
- Connected a **RESTful API** to fetch flight data, while following the **Dependency Injection** pattern.
- Followed the **Facade** pattern to provide an abstraction over the data retrieval process.
- Took **leadership** in a team of 4. Overlooked the project architecture, assuring the different parts of the program integrate smoothly. Resulting in the timely submission of the assignment, receiving a **90% grade**.
- Followed the Agile software development principles. Including sprints and code reviews.

Your Movies List | *React, NodeJS, JavaScript, CSS, SQLite, AWS*

June 2023 – July 2023

Personal Project

- Build a **full stack** website that allows users to register, search, and add movies to their personal list. Implemented a **CRUD API** for managing the movie list.
- Incorporated a **REST API** to fetch data about movies. Constructed various HTTP requests for different API endpoints. Handled and parsed the API responses. Connected front-end with back-end via **HTTP**.
- Styled an appealing & responsive UI using **vanilla CSS**. Checkout your-movie-list.com for a **live demo**.
- Connected AWS EC2 with Amazon RDS database to host the website.