Elad **Perlman**

SOFTWARE ENGINEER · STUDENT

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Education

University of Toronto St. George   *Toronto, Canada*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATH   *September 2021 - April 2025*

- GPA: 3.7/4.0
- Dean's Scholar List of Academic Excellence (2021-2024)
- Relevant Courses: Operating Systems, Software Design, Intro to Databases, Intro to ML, Graph Theory, Algorithms & Complexity, Parallel Programming, Linear Algebra I,II, Statistics I

Skills

Languages:	C#, C, Python, Typescript, HTML, CSS, MIPS Assembly, Kotlin, SQL
Frameworks:	React, Playwright, ASP. NET Core, Entity Framework, Numpy, Scikit-learn
Tools:	Git, Redux, MUI, React-hook-form, Tailwind, Vitest, MSSQL, PostgreSQL, UNIX, LATEX, Selenium, Jira Board, Postman

Experience

Survalent   *Toronto, Canada*

SOFTWARE ENGINEER INTERN   *May 2024 - Sep 2024*

- Built a full front-end testing framework on top of **Playwright** for their **pwas** (progressive web apps) with full documentation
- The framework uses **Web Sockets** with the **Chrome DevTools Protocol** to emulate the service workers being offline, who are responsible to sync local data to the backend
- The framework allows communication with the app's **indexedDB** when offline
- Used the framework to write over **350 test scenarios** for a specific product which **saved the QA team over 100 hours** of testing
- The project is integrated into the product's build using a **CI/CD pipeline** to determine its stability for production
- Other teams in the company use this project as a testing automation model for their products

Jana Corporation   *Toronto, Canada*

FULL STACK INTERN   *May 2023 - Sep 2023*

- Built framework on top of **react-hook-form** to optimize performance on complex forms by 99%
- Built a responsive error handling middleware using **RTK Query** which increased productivity within team members by 60%
- Delivered features and fixed bugs in large **ASP. NET Core** and **React** applications
- Assisted backend team design databases using **Entity Framework** for new features

Jana Corporation   *Toronto, Canada*

SOFTWARE ENGINEER INTERN   *May 2022 - Sep 2022*

- Build a test automation tool using **Selenium** to completely replace their manual approach which saved hundreds of hours of testing
- Implemented a secure password encryption tool using **Java** which the whole QA team uses for testing
- Thoroughly learned to use many tools such as **Selenium, Test Rail, React**, and **Git**
- Worked on developing new features as well as bug fixes for the mobile application using **Kotlin**

Projects

Music Web Hub [link]:

- React music hub designed to support **10,000+** users with sharing, playing, and saving their favourite songs
- Maintained global state with **Redux** and
- RTK Query to interact with over a million songs using **Spotify API**
- Uses **MUI** for base components and **Tailwind** for additional styling
- Unit and Integration testing done with **Vitest**

Stock Market Simulator [link]:

- **Swing GUI** Application created for finance students to simulate the stock market using **Java**
- Designed to handle multiple portfolios for buying and selling **100+** stocks as well as view graphs to model their progress
- Interacts with **Yahoo Finance API** to pull real time stock prices
- Stores user data on a **MSSQL** database using the **JDCB driver**

Real-time Social Media App:

- Social media console app written in C designed to support communication between thousands of users in real-time
- Uses TCP sockets to provide real-time interaction between the server side and the clients

Multiple Academic Machine Learning Projects:

- Low level implementation of GDA to identify spam emails only using Numpy
- Built random forest and logistic regression models using Numpy and scikit-learn to distinguish real vs fake news articles