TOMER COHEN

SOFTWARE ENGINEER | DATA ANALYST | FULL STACK DEVELOPER

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About Me

I am a technical, collaborative, and creative Information Systems Engineering graduate with excellent communication skills. Experienced in machine learning, data analysis, predictive modeling, and NLP using Python, with frameworks such as TensorFlow, PyTorch, and scikit-learn. Skilled in full-stack development with React, Node.js, and Next.js, and I have a proven ability to learn independently and deliver efficient solutions on large projects.

Education

Technion – Israel Institute of Technology
B.Sc. in Information Systems Engineering | 2020-2024
Faculty of Data and Decision Sciences

Projects

NLP Analysis for Native Language Prediction

- Analyzed verbal fluency data among native (L1) and non-native (L2) Hebrew speakers to predict language nativeness and explore generated semantic content.
- Utilized Python (pandas, numpy, scikit-learn, nltk, wordfreq, statsmodels), machine learning models (Logistic Regression, SVM, Random Forest), and NLP techniques for data analysis, classification and clustering.
- Achieved insights into cognitive patterns influencing verbal fluency, and documented findings in a scientific article (available upon request).

Israeli Roller Hockey League Management Web App

- Developed a web app for managing the Israeli Roller Hockey League database with my team as my graduation project.
- Built a front-end interface with React and Next.js, and a back-end API using Node.js and SQL to handle data queries.
- Improved management processes by enabling faster data access and updates, leading to better decision making for team managers.

Dead Lift - Global Game Jam 2024

- Led programming for "Dead Lift," a two-player ragdoll game developed in Unity during a 48-hour competition.
- Employed best practices in software development and worked closely with a team to integrate various features.
- Developed key systems using C# in Unity, including ragdoll physics and player controls.
- Secured 2nd place out of 33 teams and won an award for ingenuity and creativity.

Technical Skills

- Programming Languages: Python | C# | Java | JavaScript | TypeScript | SQL | C | C++
- Frameworks & Libraries: React | Next.js | Node.js | TensorFlow | PyTorch
- Tools: Excel | Git | Tableau | Visual Studio Code

Languages

- Hebrew: Native
- English: Fluent