Jennie Klein

Software Developer

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EDUCATION

Bar-Ilan University - *Computer Science BSC (2017-2020/21)*

- Proficient in Machine Learning - received a grade of 100
- Proficient in Java and OOP Programming - received a grade of 96
- Proficient in Computer Structures - received a grade of 94
- Additional courses - Algorithms, AI, Operating Systems, Computer Networks, Databases, Cyber security etc.

Udemy - *The complete Web Developer in 2020: Zero to Mastery*

- HTML , CSS, SemanticUI, Responsive Design, Flexbox, Bootstrap 4, DOM Manipulation, Javascript, Asynchronous JavaScript, HTTP/JSON/AJAX

PROJECTS

Real-Time Shuttle Tracker Android Application

- This android application directs the user to the closest shuttle station, approximates the arrival time of the shuttle. In addition the application has a machine learning feature that approximates how crowded the shuttle is currently. Use of Firebase, Googles API and written in Java and Python.

Arkanoid Game

- Built 2D color graphics, visually engaging game with multiple challenge levels by using design patterns such as - Decorator, Observer, Singleton, Object Adapter. Written in Java.

Guided Learning Solution

- I built a guided learning frontend engine GLS solution that enables step by step guidance on top of google.com. The GLS program guides a new user through google.com. The guide displays tooltips to help guide the user through the website. Use of devtools, snippets, jsonp files. Written in Js.

Flight Simulator Applications

- Created an interpreter which controlled the FlightGear Virtual Airplane Simulator. Incorporated multithreading to asynchronously send commands and receive real time data from the plane. Used the Command Pattern and Interpreter Pattern. In addition, integrated the HashMap. Written in C++.
- Web Service based on REST Architecture which received real time data from the simulator and created an animation showing the plane's flight route with the help of Ajax. Written in C# and Javascript.
- WPF Desktop Application and Android Application created to control a plane joystick. Programs were based on Client/Server Architecture, Event Driven Programming and SOLID principles. Written in C# and Java.

CNN Neural Network

- Developed a program which classified audio files into their correct categories. The program trained the hyper parameters using the Back-propagation algorithm. Performed on Linux environment and written in Python using the PyTorch Library.

WORK EXPERIENCE

SheCodes - *SheCodes is a non-profit organization that helps and encourages women to integrate and succeed in the high-tech world -* *https://she-codes.org/*

- Coding Mentor for Python and Java programming tracks.
- Troubleshooting and solving coding-related problems the participants encountered.
- Helped participants with final projects when reaching the end of the programming track.

Nefesh B'Nefesh - *Nefesh B'Nefesh is a non-profit organization which encourages and assists Aliyah (Jewish immigration to Israel) from North America and the UK.*

- Responsibilities included - Facebook communication management, employment recruitment, event planning, fundraising and leading tour groups.

LANGUAGES AND SKILLS

- Proficient in Programming Languages - C, C++, C#, CSS, HTML, Js, Java, Python, Go
- Operating Systems - Windows and Linux
- Networking protocol knowledge - HTTP, SSL, REST and wireshark
- **English - mother tongue, Hebrew - native**