Jonathan Tran

https://github.com/jontran1

EDUCATION

Grove School Of Engineering City College Of New York, NY -- B.S. in Computer Science. **GPA 3.42**, Dec 2019.

SKILLS

Primary Programming Languages: Java.
Programming Languages Used: Java, Python, Javascript, HTML, CSS.
Software Applications Used: Intellij, Android Studio.

SCHOOL PROJECTS

NC-Hash (Group Senior Design) (Spring 2019):
- An application that hashes images locally without the user knowing how the hashing took place. This application is to combat non-consensual images.
- Exclusively worked on the front-end using **JavaFX** to ensure users feel safe.
- Group was accepted into the Cyber **NYC Inventors to Founders** program based on the application.

Document Sharing System (Group) (Fall 2018):
- Developed a document sharing system using **JavaFX** and **JDBC API** for backend **MySQL** database.
- Helped implement database schemas, backend database calls for documents, taboo word detection, and text editor.

GameBook (Group) (Fall 2018):
- A simple social media website, where users can reach out to other users based on games played.
- Helped implement and design web pages layout and database schemas.
- Implemented using **JavaScript**, **node.js**, **express.js**, **MySQL, and HTML.**

Simple Artificial Life Simulation (Spring 2018):
- A simple self sustaining Artificial Life simulation using a 2D matrix as representation for the environment. Canviores, herbivores, and plants would hunt, reproduce, age, and die.
- Implemented using **Java**, **polymorphism and inheritance**.

SIDE PROJECTS

Graph-search-pathfinding-visualization (2020):
- An algorithm visualization web app. Generate an interactive maze and visualize how **DFS, BFS, Dijkstra's algorithm, A* Search algorithm,** and **Greedy Best First Search** works.
- Implemented using **JavaScript**, **p5.js**, **HTML, CSS, and Bootstrap.**

Fitboi.tech (NS Hackathon 2019 at Lehman College, Group Project):
- Fitboi.tech is a web application to help improve physical health. Used two models to determine body fat percentage. Neural networks and image recognition (Accuracy was too low). A simpler **replacement** model using linear regression with body measurements as features.
- Implemented using **Python Django web framework, Ski-learn, Pytourch,** and **HTML.**

Fan Fictor Django Web App (Summer 2019):
- A simple social media website where users login and create various works of fiction. Users can create new fictions, modify old works, and comment on public stories.
- Implemented using **Python**, **Django web framework**, **SQLite** for backend, and **Django templates (HTML)** for frontend.

Fits Android Application (Summer 2019):
- An android application designed to help users keep track of items they're interested in purchasing.
- Designed GUI, classes, database schemas. Used Activities, Fragments, and Activity lifecycle.
- Application was implemented using **Java**, **Android's SDK**, **SQLite**, and **Android Studio**.