Eli Propp

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SKILLS

- 1+ years of Python experience demonstrated through personal projects
- 6 months of C++ experience through coursework
- Strong attention to detail demonstrated by finding and correcting an error in the algorithm provided for a programming project
- Effective communication and teamwork skills showcased by formally presenting research findings to professors, graduate students and peers at the Weizmann Institute of Science
- PyCharm; Eclipse IDEs

EDUCATION

Candidate for Bachelor of Applied Science, Computer Engineering, Co-op
University of Waterloo, Waterloo, Ontario
University of Waterloo President's Scholarship of Distinction

LINKS

LinkedIn:
https://www.linkedin.com/in/eli-propp-7a13b419a/
@Eli Propp
Github:
https://github.com/Ehpropp

PROJECTS

Snake Game Clone
- Leveraged Python to create classes and functions including initialization, game logic and edge cases
- Used the PyGame library for the graphics user interface
- Created additional features such as using unique block colours

Stream Cipher
- Used C++ to develop functions to encrypt and decrypt messages using modified RC4 cipher
- Managed memory and message transactions using pointers
- Successfully handled 1 MB text file test case

Investment Tracker
- Used C++ to develop functions to track investment history and calculate the total gains/losses per year
- Stored and sorted the transaction history using a linked list
- Successfully managed 10 000 transaction file and passed edge case tests

EXPERIENCE

International Summer Science Institute   Jul 2018
The Weizmann Institute of Science, Rehovot, Israel
- Conducted research with a team of 4 to determine effects of specific factors on photosynthesis efficiency and carbon exchange of trees
- Utilized statistical analysis including Chi-Squared test and multivariate analysis to determine dependence and correlation within collected data
- Presented our findings at a research seminar to 100 peers and faculty

Catalyst Summer Program   Aug 2017
University of Waterloo, Waterloo, Ontario
- Gained experience in business design by creating and presenting a pitch for a tutor matching company
- Enhanced communication and presentation skills by presenting 5+ group and individual projects to faculty and business executives

Da Vinci Engineering Enrichment Program   Jul 2017
University of Toronto, Toronto, Ontario
- Learned and applied concepts of:
    - Game development using HTML5 and JavaScript;
    - Cloud computing using Python and SHA-256;
    - Robotics by modifying an Arduino-controlled vehicle and ranking 1st place out of 10 groups in a team competition

Shalhevet Freier Weizmann International Physics Safe Tournament   Fall 2018
TanenbaumCHAT, Toronto, Ontario
- Competed in a group physics challenge by creating a safe that competing teams had to break into using physics principles
- Created unique physics puzzles using conservation of momentum and properties of sound waves

Moshava Ba'ir Toronto Camp Counsellor   Summer 2019
TanenbaumCHAT, Toronto, Ontario
- Supervised 10+ children to ensure safe and responsible programming
- Strengthened leadership and teamwork skills by taking charge of the group while working with 3 other counsellors and 5 administrative staff