Jesse Ellin

Looking for Spring-Summer 2021 Co-op in software engineering, artificial intelligence/cognitive modeling/multi-agent systems

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Education

B.S. Computer Science & Cognitive Science
B.S. Mathematics
Rensselaer Polytechnic Institute
| 2022 | Running cumulative GPA:3.57
Relevant Classes:
Semester Away
(Completed)Probability Theory and Applications, Randomized Algorithms for Machine Learning and Optimization, Programming for Cognitive Science and AI, Linear Algebra, Metaphysics and Consciousness, Operating Systems, Cognition and the Brain, Research Methods and Statistics, Intro to Algorithms, Principles of Software, Graph Theory, Cognitive Psychology, Foundations of Computer Science, Computer Organization, Intro to Linguistics, Data Structures, Intro to Formal Logic, Intro to Cognitive Science, Intro to Computer Science

Projects

Ongoing:
- Personal website (HTML, CSS, embedded Java/JavaScript)

Extra-Curricular

- Rensselaer Chamber Orchestra (from Spring '19): Percussion line;
- President & Vice President for Capoeira RPI (from Spring '19): Running classes & organizing events & groups;
- Gap Year (2017-2018): International travel & cultural immersion in Europe & Africa;
- Assistant Coach @ Parkour Visions (2014-2017): Assisting coaches in parkour classes for students of various age, race, nationality, identity, sexuality, & mental health

Work Experience

July'20-Dec'20 Undergraduate Research Participant — RPI, Dr. Minor Gordon
Designing, developing, and testing ETL algorithms to parse product data into a size-relation predicate common sense knowledge graph

Jan'19-May'20 Mentor & Undergraduate Research Participant — RPI, Dr. James Malazita
Helping develop a new pedagogy for Introduction to Computer Science courses that focuses on the ethics & societal impacts & influences of algorithms & systems

Summer '19 Manual Laborer — BicknerNW DanceFloors
Helped with removal, transportation, & installation of dance floors for corporate & private events. Involved moving objects $>$ 50 pounds

Research & Skills

July '20-Dec'20 — Undergraduate Research Participant; Dr. Minor Gordon, Machine Common Sense
Researcher: Designing, developing, implementing, and testing an ETL algorithm on the Machine Common Sense Pipeline structure to process product information from the Web Data Commons product corpus for size-relation predicate common sense knowledge graph. This work includes: cleaning jsonl data files into a readable format; designing and testing heuristics to parse general product type from specific listing titles; parsing specific dimensions from English descriptions; transforming dimensions into workable sizes

Jan '19-May'20 — Undergraduate Research Participant; Dr. James Malazita, Critical CS1
Mentor: Helping students in a Computer Science 1 lab & being in frequent communication with department administration to make sure course work was comprehensible & effective for students' education
Researcher: Helping develop a methodology & coursework to learn Computer Science with a focus on ethics & the societal impacts & influences of algorithms & systems. This work includes: analyzing student responses to classroom discussions & lectures; writing lab projects, revising & writing homework, finding relevant articles & journals to augment lab projects & homework; & reaching out to other departments, universities, researchers, & professors to expand the reach of our project & get new ideas

Programming Languages
(Formal) Latex, Java, C, C++, Python, RobotC
(Familiar) HTML, SQL, JavaScript, R

Python Packages
ABC, DataClasses, Keras, Numpy/Pandas, Parsimonious, PyTorch, SciKitLearn, Spacy, TensorFlow, Typing

World Languages
(Formal) French (intermediate), Spanish (beginner), German (beginner)
(Familiar) Various

Technical
Design : Inventor Autodesk, Adobe Photoshop, MS Office
Interface: CMD, Ubuntu, Git

Leadership
Sports instructor; martial arts club vice president and president; research project team lead

Other
First-aid, CPR, AED training