

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 | GPA: 3.57

Relevant Classes:

(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 JavaScript)

Extra-Curricular

- Rensselaer 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

- Jan'20 Technical Advisor and Data Scientist Unannounced Political Campaign
Running analysis on political data for predictive models and
visualization. Finding relevant data sources and creating API front-
ends.
- Jan'20 Developer SaferMD/VelocityAI
Designing, developing, and testing NLP algorithms, ML models, and
visualizations to preprocess medical documentation for future
analysis. Also involves technical writing and software documentation

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, Ktrain, 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 instructor and president;
research team lead