

Courtney C. Caldwell

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EDUCATION

- **University of Massachusetts, Lowell** Lowell, MA
Bachelors of Science in Computer Science, General Focus; GPA: 3.73 *Expected Dec. 2020*
- **St. John's College, Annapolis** Annapolis, MD
Bachelors of Arts in Philosophy, History of Math and Science *Graduated May 2016*

EXPERIENCE

- **University of Massachusetts, Lowell** Lowell, MA
Teaching Assistant, Artificial Intelligence *Jan. 2020 - Present*
 - **Lead Review Sessions:** In charge of leading review and preparation sessions for examinations and projects.
 - **Curriculum Design:** Creating new and adjusting previous curriculum elements for an updated course plan.
 - **Building Course Website:** Responsible for the design and implementation of a new course website.
- **Putnam Investments** Andover, MA
Advanced Analytics Software Developer *Jan. 2019 - Present*
 - **Production Performance Model:** Researched, designed, and trained a model to take data collected on production worker performance for over 100 workers.
 - **Sales Prediction Model:** Assisted in development of a model for predicting sales based on previous touchpoint and purchase history data.
- **University of Massachusetts, Lowell** Lowell, MA
Grader, Computing I & II *Sep. 2018 - Dec. 2019*
 - **Grading Work:** Worked closely with the professor to design rubrics and graded both daily homework and exams.
 - **AutoGrader:** Designed an auto-grading script to assist in quickly assessing the quality of code submissions by students.
- **S2 Security Corporation** Framingham, MA
Technical Triage Specialist *Oct. 2016 - Jan. 2018*
 - **Workflow Automation:** Independently built an automated follow-up system for orders using existing API infrastructure.
 - **Technical Triage:** Provided solutions for basic programming and setup questions on over 40 products.
 - **Report Design:** Designed reports for over 50,000 cases through Salesforce on response times and case causes.

PROGRAMMING SKILLS

- **Skilled and Proficient In:** Python, C, SQL
- **Experience With:** C++, R, HTML, CSS, JavaScript
- **Technologies:** Azure, Databricks, Jupyter, Docker, Tableau

PROJECTS

- **Game Balancing Research with Model-free Q-Learning (Python):** Implemented and tested a Q-Learning based agent for testing the balance of a board game, analyzed results, and presented a paper to peers and faculty.
- **Path Finding Agent with Probabilistic Model Based Learning (C):** Built, implemented and tested an artificial agent which found a path to a goal location in a randomly generated 2d map (represented by a 2d matrix).
- **Productivity Performance Algorithm and Report (Python, SQL, Tableau):** Algorithm designed in Python, with automatic output to Oracle SQL database, and loaded into a Tableau workbook and report.

EXTRACURRICULARS

- **Association of Computing Machinery, UML:** V.P. (May - Dec. 2018), President (Jan. - Dec. 2019)

INTERESTS

- Gregorian Chant, Data Science, Artificial Intelligence, Machine Learning, Physics, French Translation.