Courtney C. Caldwell

https://www.linkedin.com/in/courteyccaldwell/

Email : courtneyccaldwell@gmail.com
Mobile : (617) 913-6325

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 - Feb. 2020*
  - **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, Swift

- **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 Probabiltiy 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.