Courtney C. Caldwell

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EDUCATION

- **University of Massachusetts, Lowell** — Lowell, MA
  Bachelors of Science in Computer Science, Data Science Focus; GPA: 3.87 — *Anticipated May 2020*

- **St. John's College** — Annapolis, MD
  Bachelor of Liberal Arts in Philosophy and History of Math and Science — *Jul. 2016*

PROGRAMMING SKILLS

- **Languages**: Python, R, C, C++, SQL   **Technologies**: Azure, Databricks, Jupyter, Docker, Tableau

EXTRACURRICULARS

- **Association of Computing Machinery, UML**: Chapter President (Dec. 2018 - Present)

PROJECTS

- **Agglomerative Clustering Algorithm (C++)**: Using a limited 2d matrix design and tuple structures, designed an agglomerative clustering algorithm, first for only vector values, then for text.
- **Evil Hangman (C)**: Program designed, prototyped, and tested using opaque objects, hash tables, and tree structures to create a challenging 'intelligent' hangman opponent.
- **Personal Finance Program (Python, SQL)**: Program designed using Python 2.7 and SQL, created to keep track of household finances, and give spending trend data.

EXPERIENCE

- **Putnam Investments** — Andover, MA
  Analytical Services Software Engineer CoOp — *Jan. 2019 - Present*
  - **Production Performance Model**: Researched, designed, and trained a model to take data collected on production worker performance.
  - **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 - Present*
  - **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.

- **St. John's College** — Annapolis, MD
  Senior Laboratory Assistant — *Dec. 2015 - May 2016*
  - **Classroom Assistance**: Advised students and professors on proper laboratory experiment procedures. Taught and gave demonstrations for biology and quantum mechanics classes.
  - **Laboratory Maintainence**: Maintained laboratory equipment and monitored temperature of sensitive materials and specimens.

INTERESTS

- Data Analysis, Artificial Intelligence, Machine Learning, Physics, French and Greek Translation.