COOPER MCGUIRE

(571) 419-2088   mcguirecooper@gmail.com   606 Tyson Drive, Falls Church, VA 22046

PROFESSIONAL SUMMARY

Talented, technical, and analytical employee effective at multi-tasking and maintaining a friendly attitude under pressure. Efficiently builds loyalty and long-term relationships with clients while consistently achieving organizational and individual goals. Detail oriented and highly organized. Looking for an opportunity to contribute in a collaborative work environment.

SKILLS

- Java
- Python
- R
- SQL
- AMPL

EDUCATION

Cornell University Bachelor of Engineering in   Anticipated May 2022
Operations Research and Information Engineering
    Minor in Dyson School of Applied Economics and Management

WORK EXPERIENCE

Maroon Creek Club / Aspen, CO   Summer 2019
Golf Member Services at Aspen's affluent. Catered to needs of club members as they interacted with the club's recreation services and amenities. Ever-changing needs required fast-paced decision-making and on-the-job training.

The McGuire Group / Falls Church, VA   2015-2018
Social Media Marketing and Point-of-Sale for a family-owned, small business. Designing and targeting ads to highly receptive demographics and tangential interests.

TECHNICAL EXPERIENCE

- Object Oriented Programming and Data Structures
- Probability and Statistics
- Regression techniques
- Game theory in Business
- Network algorithms and modeling
- Machine Learning Implementations
- BFS/DFS Optimization

Faculty Research Projects:
- **Social Justice Mathematics and Data Analysis**- Published a mini-textbook (60 pg) on the decision sciences for 4000 inmates in prisons nationwide. Topics included voting theory, apportionment, and gerrymandering. Honorable Mention for Undergraduate Presentation at Joint Math Meetings 2020, "Winning with Math: An Introduction to Social Choice for Prison Inmates". Analyzed survey data gathered from inmates on effectiveness of Cornell's prison education system.
- **Hawkes-dictated demand applied to Economic Order Quantities**- Publishing paper exploring how self-exciting demand affects an inventory reorder quantity (EOQ). Developing a simulation to determine the optimal EOQ, modelling Hawkes processes on challenges universal to industry.