

# Jackson Douglas

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## EDUCATION

### Cornell University, College of Engineering

Ithaca, New York

*Candidate for Bachelor of Science in Operations Research and Information Engineering*

Anticipated Graduation: May 2025

Relevant Coursework: Optimization I & II, Engineering Probability and Statistics I & II, Engineering Stochastic Processes I, Business Statistics, Object Oriented Programming and Data Structures, Linear Algebra, Practical Tools for ORIE and ML, Financial and Managerial Accounting

## PROFESSIONAL EXPERIENCE

### NYU LANGONE HEALTH

New York, NY

*HiBRID Lab Digital Health Intern*

June 2024 – Present

- Develop code to extract and clean patient data from json files to be fed into custom ChatGPT prompt
- Screen and extract hundreds of studies to be used in multiple ongoing research papers
- Clean and compile patient data from CSV files to ensure patient zip codes are current when drawing conclusions

### CORNELL ENGINEERING

Ithaca, NY

*ORIE Research Assistant*

January 2024 – Present

- Researched the applications of additive manufacturing within operations research to optimize production processes
- Topologically optimized finite element models created in FreeCAD using a python macro to apply the BESO method
- Created and presented weekly 30-minute deliverables concerning current research to department faculty for feedback

### SORRENTO VILLAGE IMPROVEMENT ASSOCIATION

Sorrento, ME

*Head Sailing Coach*

June 2019 – August 2023 (Seasonal)

- Designed and implemented a curriculum to effectively coach children and adults on sailing and racing skills
- Planned beginner and advanced lessons for each day and ensured proper care of both equipment and boats used daily
- Led staff meetings and oversaw a team of 8 counselors to ensure students safety on and around the water
- Organized and ran weekly regattas and sent students to compete at nearby yacht clubs' annual regattas

## PROJECTS

### SPOTIFY MUSIC DATABASE BREAKDOWN AND ANALYSIS

Ithaca, NY

*Project Team Member*

January 2023 – May 2023

- Analyzed Spotify data from 2020 of 19,332 songs to determine which audio features were correlated with song popularity
- Led weekly team meetings to review progress and divide up work based on members individual strengths
- Utilized python libraries including pandas and NumPy with data analysis tools including linear regression to visualize data and draw conclusions

## LEADERSHIP & ACTIVITIES

### LAMBDA CHI ALPHA SOCIAL FRATERNITY

Ithaca, NY

*Executive Board Member, Alumni Relations Chair, Ritualist*

October 2022 – Present

- Discussed and worked towards solutions for larger house issues including finances and university relations
- Fostered a hospitable environment for alumni and organized events such as annual alumni weekend and Homecoming
- Organized a 4-part initiation ceremony for 20 new fraternity members with 40 volunteers, including rehearsals

### STUDENT ASSEMBLY DINING COMMITTEE

Ithaca, NY

*Dietary and Allergen Subcommittee Co-Lead*

October 2021 – Present

- Supported dietary needs of Jewish and Muslim students by increasing access to Kosher and Halal options across campus
- Reviewed Cornell Dining policies and initiatives, focusing on sustainability, nutrition, and experience
- Served as primary liaison between gluten free students and the committee, oversaw all initiatives relating to GF accessibility

## SKILLS & INTERESTS

**Languages and Programs:** Python, SQL, Java, Tableau, Power BI, Microsoft Excel, GitHub, Adobe Suite

**Interests:** Sailing, Hiking, Running, Skiing, Data Privacy