

# Andrew Macpherson

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## Skills and Qualifications

- Highly proficient in C++, C#, Python, JavaScript, HTML, CSS, Sass, SQL
- Skilled in Vue.js, Node.js, Phaser.js, jQuery, Bootstrap, Responsive Design, BeautifulSoup, Ruby, F#
- Passionate and experienced in data analytics with strong analytical skillset (Tableau, Excel)
- Exceptional communication skills, both written and verbal

## Education

|  |  |                        |
|--|--|------------------------|
| <b>Bachelor of Science in Computer Science</b> | <i>Seattle Pacific University, Seattle, WA</i>   | <b>June 2023</b>       |
| <b>Bachelor of Science in Physics</b>          | <i>Seattle Pacific University, Seattle, WA</i>   | <b>June 2023</b>       |
| <b>Bachelor of Arts in Honors Liberal Arts</b> | <i>Seattle Pacific University, Seattle, WA</i>   | <b>June 2023</b>       |
| Study Abroad                                   | <i>University of Roehampton, London, England</i> | <b>Sept – Dec 2021</b> |

## Relevant Experience

### **Intern, Inflight Operations**

**June – September 2022**

*Frontier Airlines, Denver, CO*

- Overhauled complex logistical network to oversee distribution of over 500 crew badges nationwide
- Worked with hundreds of flight attendants & visited planes daily to ensure smooth operations
- Helped ensure smooth operations by monitoring crew rooms and soliciting personnel feedback

### **Deputy Data Director, Regional Tech Captain**

**August – November 2020**

*Harley Rouda For Congress, Newport Beach, CA*

- Evaluated, managed, updated, and analyzed hundreds of thousands of data weekly
- Recognized and quickly promoted multiple times to perform expanded cross-platform technical duties

## Special Projects

### **Computer Vision Deep Learning in Astronomical Image Classification**

**March 2022 – June 2023**

*Seattle Pacific University, Seattle, WA*

- Undergraduate Honors capstone involving extensive interdisciplinary research at multiple universities
- Used deep learning techniques to develop framework for AI classification of astrophysical phenomena

### **Graduation Planning Web App**

**September 2022 – June 2023**

*Seattle Pacific University, Seattle, WA*

- Lead web engineer with focus on backend data integration and harmonizing group contributions
- Innovated new solutions and technical tools to solve a need for students at Seattle Pacific University

### **Data Analysis with Python**

**January – March 2020**

*Seattle Pacific University, Seattle, WA*

- Undertook a self-taught, faculty-guided independent study to learn and apply Python tools & principles
- Mined, modeled, & analyzed statistics to identify outstanding performances and hidden trends

### **Research and Statistical Analysis Pertaining to Viewpoint Associations**

**June 2018 – May 2019**

*Pacifica Christian High School, Newport Beach, CA*

- Studied statistical correlations between viewpoints by designing, administering, and analyzing survey to collect, identify, and quantify subjective and tacit convictions using statistics and computer science

## Additional Experience

|  |   |                                 |
|--|---|---------------------------------|
| <b>Society for Physics Students VP</b> | <i>Seattle Pacific University</i>                   | <b>September 2021 – Present</b> |
| <b>Physics Tutor</b>                   | <i>Virtual/Newport Beach, CA/Seattle, WA</i>        | <b>February 2021 – Present</b>  |
| <b>Physics Learning Assistant</b>      | <i>Seattle Pacific University</i>                   | <b>January – March 2022</b>     |
| <b>Children's Ministry Volunteer</b>   | <i>First Christian Church, Huntington Beach, CA</i> | <b>July 2021 – Present</b>      |
| <b>Flag Football Official</b>          | <i>Underdog Sports Leagues, Seattle, WA</i>         | <b>September 2019 – Present</b> |
| <b>Eagle Scout</b>                     | <i>Boy Scouts of America, Troop 1</i>               | <b>Awarded September 2019</b>   |