# Michael Ortega

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## Education

**Georgia Institute of Technology**                                                                                                                 *Atlanta, GA*

B.S. in Computer Science                                                                                                                *Anticipated Graduation: Dec 2024*

- 4.0 GPA | Threads focused in Artificial Intelligence and Theory
- **Relevant Coursework:** Objects & Design, Data Structures & Algorithms, Probability & Statistics, Discrete Math, Linear Algebra, Combinatorics.
- **Activities:** GT Skateboarding Club, WREK Radio.

**Broward College**                                                                                                                                     *Weston, FL*

Associate of Arts                                                                                                                               *May 2019 - June 2022*

- 4.0 GPA | Summa Cum Laude

## Work Experience

**Cypress Street Pint & Plate**                                                                                                                        *Atlanta, GA*

Servers' Assistant & To-Go Specialist / Barback                                                                                          *March 2023 - Present*

- Supporting servers and bartenders by clearing tables, assisting guests, and restocking supplies in a fast-paced environment.
- Assisting bartenders with opening and closing the bar, servicing guests, and managing orders over the phone, online, and at the bar.
- **Soft Skills:** Teamwork, Time Management, Communication, Customer Service.

**Mathnasium**                                                                                                                                   *Pembroke Pines, FL*

Lead Instructor (02/21 - 08/22), Instructor (07/20 - 02/21)                                                                               *Jul 2020 - Aug 2022*

- Trained new instructors and oversaw overall instructor training and growth (approx. 20 instructors).
- Aided in the enrollment and marketing processes by holding 4-5 monthly parent consults and running 4 marketing events.
- Monitored and updated students' curriculum by curating specific topics for customized curriculum, communicating student progress to parents. (approx. 100 students)
- Privately tutored Algebra I and II, Geometry, Pre-Calculus, Calculus I, SAT/ACT Prep, and other higher-level Algebra (approx. 20 students).
- Aided in the development of integral math skills for middle and high school students.
- **Soft Skills:** Teamwork, Time Management, Communication, Team Management.

## Research Experience & Projects

**Classifying Cichlid Behavior**                                                                                                                       *Atlanta, GA*

McGrath Lab, Georgia Tech School of Biological Sciences                                                                                   *June 2023 - Present*

- Creating data set by annotating 50 extracted frames from distinct videos of 38 behavioral and control tanks alongside 3 team members.
- Training and optimizing DeepLabCut model on data to mark and predict body parts and movement for novel videos using hyperparameter tuning and data augmentation.
- Developing a neural network that uses DeepLabCut markers and tracking, YOLO detections, and kernel convolution to classify cichlid behavior.
- **Technical Skills:** Python (TensorFlow, PyTorch, NumPy, Pandas, Matplotlib), Statistical Analysis, DeepLabCut, Linux CLI.
- **Soft Skills:** Formal documentation, Time Management, Presentation Skills, Experimental Design.

**Detecting Parkinson's Disease**                                                                                                                      *Atlanta, GA*

Big Data Big Impact Club, Georgia Tech                                                                                                     *Sep 2022 - May 2023*

- Analysing data set of biomedical voice measurements from 219 patients and results of cognitive assessments from 2300 patients to predict Parkinson's in new patients.
- Training and altering machine learning model using SVM and XGBoost algorithms to achieve 95% certainty in predictions using biomedical voice measurements.
- Utilizing computer vision techniques to recognize patterns in hand tremors.
- **Technical Skills:** Python (TensorFlow, NumPy, Pandas, Plotly, Matplotlib, XGboost, Seaborne), Google Colab.
- **Soft Skills:** Time Management, Teamwork.

## Skills

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|---|---|
| **Programming** | Python (BeautifulSoup, TensorFlow, Selenium, Requests, Pandas, etc.), Java, C, HTML/CSS, TeX. |
| **Miscellaneous** | Windows, Shell(Bash/Zsh), LaTeX, Microsoft Office, Ableton Live, Adobe Photoshop. |
| **Soft Skills** | Time Management, Teamwork, Problem-solving, Documentation. |