Michael Ortega

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Personal Profile

An undergraduate student at Georgia Tech, studying Computer science. Passionate about software engineering and climate change research with minimal experience in machine learning, python development, and algorithms. Primarily, looking for roles to gain experience in Machine Learning/Data Analysis/Developing.

Education

Georgia Institute of Technology *Atlanta, GA*
B.S. in Computer Science, Minor in Sustainable Cities *Anticipated Graduation: Dec 2026*
- 4.0 GPA | Threads with focus in Intelligence and Modeling/Simulation

Broward College *Weston, FL*
Associate of Arts *May 2019 - June 2022*
- Graduated Summa Cum Laude

Somerset Academy Charter *Pembroke Pines, FL*
High School *Aug 2018 - June 2022*
- Graduated salutatorian | 4.0 GPA

Work Experience

Mathnasium *Pembroke Pines, FL*
Lead Instructor (02/21 - 08/22), Instructor (07/20 - 02/21) - Part-time *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.
- Communicated student progress with parents to develop learning plans (approx. 100 total 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 mathematical skills, among students behind, at, and ahead grade level
- **Soft Skills:** Teamwork, Time Management, Communication, Delegation.

University Projects

Parkinson's Disease Detection *Atlanta, GA*
Big Data Big Impact Club, Georgia Tech *Sep 2022 - Present*
- Analysing dataset of biomedical voice measurements from 219 patients and results of cognitive assessments from 2300 patients to predict Parkinson's in new patients.
- Train and alter ML model using SVM and XGBoost algorithms to achieve 95% certainty.
- Working towards combining multiple models and developing a website to gather user input.
- **Technical Skills:** Python (TensorFlow, Numpy, Pandas, Plotly, Matplotlib, Xgboost), Google Colab.
- **Soft Skills:** Time Management, Teamwork.

International Rating Systems *Atlanta, GA*
Building for Equity and Sustainability VIP, Georgia Tech *Aug 2022 - Present*
- Analysing 9 case studies of equity and sustainability in the built environment to create suggestions for the International Living Future Institute (ILFI)'s Living Building Challenge rating systems .
- Partnering with the NAACP's Centering Equity in the Sustainable Building Sector (CESBS) Initiative to communicate suggestions and critiques to the ILFI.
- Exploring measures of equity to determine a quantifiable metric for equity over time.
- Publishing accumulated research on website to raise awareness of equity to the neighboring Atlanta community.
- **Technical Skills:** Wordpress.
- **Soft Skills:** Research skills, Presentation skills, Teamwork, Communication Skills.

Skills

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