# DAVID BUFFKIN

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## PROFESSIONAL SUMMARY

Forward-looking computer scientist with a special interest in artificial intelligence and machine learning. Searching for especially innovative roles in research and development of AI in the modern age. Prepared to learn and adapt to new approaches to AI and apply said techniques in real-world applications.

## EDUCATION

**Carnegie Mellon University - Pittsburgh, PA** *August 2019 - December 2021 (expected)*
Bachelor of Science in Artificial Intelligence GPA of 4.0
- Notable Coursework: Deep Learning, Computer Vision, Neural Computation, Neuroevolution, Artificial Intelligence, Machine Learning, Modern Regression, Computer Systems, Theoretical CS, Functional Programming, AI and Humanity

**University of Florida - Gainesville, FL** *August 2018 - May 2019*
Dual-enrollment during senior year of high school GPA of 4.0

**Buchholz High School - Gainesville, FL** *August 2015 - May 2019*
Scored 5 on all 15 AP classes taken 4.0 unweighted GPA, 4.85 weighted

## TECHNICAL STRENGTHS

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|---|---|
| **Programming Languages** | Python, Java, C/C++, C#, R, Matlab, SML, Julia |
| **Technical Skills** | AWS [EC2, Lambda, S3], PyTorch, Jupyter, CV, Blender, Unity, LaTeX |
| **Programming Techniques** | OOP, Imperative & Declarative, Algorithms, Data Structures, DP |
| **Personal Traits** | Project Coordination, Team Leadership, Communication, Ethics |

## EXPERIENCE

**CMU Summer Intern**
Worked for the university on creating a greenhouse simulation for use by autonomous agents. Modelled robust growth of multiple plants and realistic environmental factors. Summer 2020

**Freelance Application Developer**
Created, developed, tested and released video games for the iOS platform, implemented advertising services from Google and Unity. Developed applications in React Native using Expo

**Private Math Physics Economics Tutor**
Accelerated client's learning and comprehension of course material in advanced subjects, provided and evaluated effective strategies and feedback to maximize performance

## STEM COMPETITIONS

Participated and performed remarkably well in many high school math and science competitions like National Science Bowl, USAPhO, AMC/AIME, ARML, Mu Alpha Theta, USNCO, and Physics Bowl among others

Head Programmer for high school FTC robotics team; mechanical design work