

Brittany Cates

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EXPERIENCE

- Data Scientist** Fort Collins, CO
Mountain Data Group May 2022 - Present
 - Implementation of custom neural network tuner:** enabled efficient tuning of model hyperparameters
 - Created data sorting program:** which allowed for more effective weighting of samples for use in forecasting model
 - Design of forecasting model:** for prediction of marathon performance by elite runners
- Corporate Travel Specialist** Remote
Oak Ridge National Laboratory September 2014 - May 2022
 - Demonstrated customer service skills:** worked with Oak Ridge National Laboratory employees to arrange corporate travel in support of the scientific mission of the lab.
 - Quickly adapted to changing software and procedures:** met evolving technological and security needs.
 - Collaborated as a team:** worked with other travel specialists, administrators, auditors, and managers to meet the needs of the Oak Ridge National Laboratory and their scientists
- Student Unity Developer/VoxML Researcher** Fort Collins, CO
Colorado State University August 2021 - May 2022
 - Researched and developed:** Researched and developed on the VoxWorld platform for embodied agents.
 - Documented and tested:** Documented and tested tutorial implementations and built pipelines for multiple platforms, writing and maintaining documentation.
 - Facilitated knowledge transfer:** Facilitated knowledge transfer of the platform to other researchers.
- Teaching Assistant** Fort Collins, CO
Front Range Community College August 2019 - May 2020
 - Provided in class assistance and one-on-one tutoring:** Explained basic coding concepts. Helped students with homework problems.

EDUCATION

- Colorado State University** Fort Collins, CO
Ph.D. - Computer Science; GPA: 4.0 Expected May 2026
Courses: Machine Learning, Natural Language Processing, Engaging in Virtual Worlds, Software Engineering, Operating Systems, Algorithms, Statistics, Linear Algebra, Calculus
- Middle Tennessee State University** Murfreesboro, TN
Bachelor of Science - Psychology; GPA: 3.6
Courses: Advanced Research Methods, Advanced Statistics for Behavioral Sciences, Cognitive Psychology, Sensation and Perception

SKILLS SUMMARY

- Languages:** Python, C++, C, C#, Java, JavaScript, HTML, R
- Tools:** Git, Jupyter Notebooks, SciPy, NumPy, Pandas, Keras, Unity, Blender, Visual Studio, Pycharm
- Skills:** Scrum, Agile, Test Driven Development, Clean Code, Unit / Coverage Testing, Continuous Integration
- Soft Skills:** Leadership, Writing, Communication, Time Management, Event Management

PROJECTS

- Classification of MPII Human Pose Dataset using Neural Network:** Used a neural network to classify activities portrayed in images, based on the pose of the person in the image. Tech: Python, Jupyter Notebooks, NumPy, SciPy, Pandas (May 2021)
- Unity Game Project:** Created 3D game using Unity game engine. Used Blender to develop and animate character models. Tech: Unity, Blender, C#. (December 2021)
- Navigation Application:** Created a mobile, single page application and restful API services during a semester-long, team-based Agile software development project in a team setting. Tech: JavaScript, GitHub, ZenHub, Markdown, JUnit, Jest (December 2021)

ORGANIZATIONS AND LEADERSHIP

- President ACM-W - Association of Computing Machinery's Council on Women in Computing:** Maintained relations with supporting companies, organizations, and faculty. Arranged events such as banquets and talks from companies. Managed other officers by delegating tasks.
- Event Planner ACM - Association of Computing Machinery:** Helped presenters on campus, scheduled meeting rooms, monitored and managed meeting room, distributed weekly meeting notifications and forms.
- Mentor CS[U] - Computer Science Mentorship Program :** Provided weekly mentoring to younger student to provide support for success in Computer Science.