

Eli Orians

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Education

Appalachian State University

Master of Science in Computer Science

Boone, NC

Aug 2022 - December 2024

- Concentration in Data Science
- Renewable Energy Initiative Data Management Chair
- ECRS Fellowship Recipient
- GPA: 3.6

Appalachian State University

Bachelors of Science in Computer Science

Boone, NC

Aug 2019 - May 2023

- Minor in Mathematics
- Club Cross Country & Track President
- GPA: 3.5

Experience

ECR Software

Software Developer - Applied Research

Boone, NC

Sep 2023 - Present

- Explored and experimented with various advanced models, including TensorFlow reinforcement learning algorithms and OpenAI's LLMs.
- Contributed to pioneering research initiatives aimed at enhancing product functionality and performance.
- Delved into innovative technologies to drive project innovation and success.

Appalachian State University

Research and Teaching Assistant

Boone, NC

Sep 2023 - Present

- As an RA, I conducted research concerning the prediction of power output of wind turbines using machine learning, meeting with an App State professor for weekly updates.
- As a TA for Computer Science II and Discrete Math, I attended class sessions to assist students, held personal office hours, and assisted in grading.

ECR Software

Software Developer - Reporting & Analytics

Boone, NC

Oct 2022 - Sep 2023

- Develop and maintain distribution and custom reports using Jaspersoft Studio.
- Manage customer requests ranging from bug fixes to new custom reports.
- Utilize JIRA for efficient tracking and resolution.

Mellow Mushroom

Kitchen Manager

Blowing Rock, NC

Nov 2020 - Nov 2022

- Manage and train kitchen staff, coordinate food orders, and oversee inventory management in compliance with safety practices.
- Ensure sanitation and safety standards are maintained in the kitchen area.

Projects

Predicting the Broyhill Wind Turbine

- Developing a python program to use turbine data collected from the Broyhill wind turbine alongside weather data for Boone collected from the National Oceanic and Atmospheric Administration (NOAA) to predict the power output of the turbine up to seven days out.

S-Stem Research

- As an ECRS Fellowship scholar and member of the S-Stem program at App State, I lead computer science underclassmen through a series of projects that build upon their skills, from using the Spotify API for data visualizations to developing an ML model to classify mushrooms.

Appalachian State Club Cross Country & Track Website

- A central website for the schools club cross country and track team. Streamlined important processes for future officers such as membership payments. Built using React, JavaScript and HTML/CSS.

Renewable Energy Initiative Backend Update

- Worked with members of ASUREI database management team to update the backend of the club's dashboard from python 2 to python 3. The dashboard utilizes our MySQL server to visualize data from various club-funded projects

Skills

Technical Skills Python (Pandas, NumPy), Machine Learning(Tensorflow, Open-AI, Scikit-Learn), Java, C/C++, SQL