

Cayden Dunn

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SUMMARY

As a versatile machine learning engineer and computer scientist, I specialize in SKlearn, Apache Spark, Databricks, Azure, SQL, and Python. My focus is on process automation, discerning novel problem spaces, and emphasizing not every problem needs a machine learning solution.

PROFESSIONAL EXPERIENCE

Machine Learning Engineer @ ClearForce | Vienna VA | Dec 2021 - Current 2024

- Developed model to win 300,000\$ contract and partnership with Virginia VA to prevent veteran suicide using SKlearn, DataBricks, Apache Spark, MLFlow, and SQL
- Automated data processing to create visualizations for business teams using Python and PowerBI

Computer scientist @ Medical University of SC, Mulholland Neuroscience Lab

Charleston SC | Nov 2020 - Nov 2021

- Integrated behavioral analysis into brainwave analysis studies using Raspberry Pi and OpenCV
- Assisted in creating 3D brain renderings with varying protein stains using Imaris
- Processed data collected from nodes in mouse brains using KiloSort and MATLAB

Frontend Developer (Internship) @ Ability Beyond | Remote, Danbury Ct | May 2020 - Aug 2020

- Automated shift scheduling for non-profit, reducing required shift managers, by creating a web app using Flutter.

College Tutor @ College of Charleston | Charleston SC | Aug 2019 - May 2022

- Tutored other college age students in Math and Computer Science topics.

PUBLICATIONS

- Dunn, C., Navid, H., (2023). "Gestalt: Combining GPT Language Models and Computational Knowledge Engines." URI: <https://hdl.handle.net/10125/107007> [PDF](#)
- Dunn, C., Kris, G., (2023). "BicePy: Bilingual Description of Compiler Errors in Python." DOI: 10.1109/VL-HCC57772.2023.00038 [PDF](#)
- Dunn, C., Kris G., (2023) "Fingerprinting of Malware Families Under Uncertainty." IFIP [PDF](#)

EDUCATION

College of Charleston | **Master of Science in Data Science and Analytics** | Aug 22' to June 23'

- GPA 4/4
- 1st place College of Charleston Graduate Poster Session

College of Charleston | **Bachelor of Science in Computer Science** | Aug 18' to Aug 22'

- GPA 3.78/4
- Honors: Magna Cum Laude, Achieved President's list 5 semesters, Achieved Dean's list 3 semesters
- Relevant Activities: Cyber security club member, Women in STEM club member, Club Lacrosse Captain

Stanford Online | **Machine Learning Certificate** | Dec 20' to Aug 20'

- Coursera Course taught by Andrew Ng that builds foundational concepts of Machine learning models.

VOLUNTEER

REACH | mentor | Sandy Hook, CT | Sep 2015 - June 2018

- Provided one-to-one social and academic support to mentees (at-risk youth)

Ben's Lighthouse | Volunteer/Representative | Sandy Hook, CT | July 2014 - June 2018

- Crew team member in Greely, Colorado. Repaired homes damaged by flooding. Met and shared experiences with the survivors of the Columbine School shooting.

INTERESTS

- Video games, AI, Longevity, Lacrosse, Hiking, Climbing, Automation, Building PC's, Keyboards