

Elijah Booth

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<https://awkwardpancakes.github.io/Portfolio/index.html>

Education

University of Central Florida

Bachelor of Sciences in Mathematics | Expected December 2024 | GPA 3.0

Bachelor of Arts in Writing & Rhetoric | Expected December 2024 | GPA 3.8

Relevant Coursework

Probability Random Processes & Applications | Mathematical Modeling of Data | Mathematical Foundations Machine Learning and Artificial Intelligence | Matrix and Linear Algebra | Linear Algebra | Writing for Technical Professionals

Technologies: Python, Jupyter, C, Maxima, HTML, CSS, Microsoft Word, Microsoft PowerPoint

Professional Experience

Front Desk | UCF Office of Student Involvement and Student Government | Orlando FL | June 2023 – Current

- Answered questions and solved problems for students regarding the operations of student government and the office of student involvement.
- Maintained the front of the offices by operating printers, distributing packages, renting/ repairing equipment, and facilitating operations of the office.

Mentor Writing Consultant | UCF University Writing Center | Orlando FL | August 2021 – December 2022

- Conducted writing center related research and presented findings to colleagues.
- Consulted students' composition methods via 45-minute document-focused online or in-person sessions.

Lifeguard | UCF Recreation and Wellness Center | Orlando FL | June 2021 – December 2021

- Gave detailed attention to the safety of patrons whilst enforcing rules.
- Maintained facility and equipment while also maintaining certifications in CPR, AED, and American Red Cross Lifeguarding.

Projects

MNIST Dataset & K-Means Algorithm | MAP4191– Mathematical Modeling of Data | December 2023

- Implemented a K-means algorithm on the MNIST dataset with Jupyter Notebook in Python.
- Applied a K-folds method for cross-validation and programmed to an 85% accuracy.

Neural Network Without Pytorch & Iris Dataset | MAP4112– Math. Found. Machine Learning | December 2023

- Implemented a Neural Network in Python, without Pytorch, accurately predicting the Iris dataset.
- The program uses gradient descent for error minimization alongside a neural network constructed using layers.

Other/ Interests

Vice President | UCF Arboretum Beekeepers | Orlando FL | July 2022 – December 2022

- Managed the organization of members for hive inspections and honey harvests.
- Gave detailed attention working on the beehives while remaining calm and collected in tense situations.

Art Director | Cypress Dome Magazine | Orlando FL | March 2022 – December 2022

- Directed curation of over 30 pieces of art, managing a team of 26 art screeners.
- Lead meeting and presentations whilst participating in the fundraising and editorial process.

Marketing Director | Cypress Dome Society | Orlando FL | August – December 2022

- Promoted the magazine by hosting events and reaching out to classes and students.
- Worked alongside Cypress Dome leadership to set and achieve goals for the magazine.