

## Curriculum Vitae

### Joey Paul Eli Haynes

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## Education

### B.S. in Computer Science, Minor in Applied Mathematics

Southern New Hampshire University, Manchester, NH

Expected Graduation: May 2024

Cumulative GPA: 4.00/4.00

## Research Experience

### Research Intern

Systems Realization Laboratory, University of Oklahoma, Norman, OK

August 2023–Present

Collaborators: Prof. Farrokh Mistree, Prof. Janet K. Allen, Dr. Wesley T. Honeycutt, Mayank J. Bhalerao

**Overview:** Investigated the potential correlation between increasing light pollution and the frequency of bird strikes in aviation. Currently collaborating with mentors to create a predictive model and prepare the publication and presentation of a research paper.

### Key Responsibilities:

- Analyzed and interpreted data, using statistical and machine learning tools, to build scenarios aiding policy decisions in aviation safety and urban planning.
- Currently developing a predictive model using techniques including linear regression, decision trees, and random forests.

**Key Anticipated Outcomes:** To offer insights with the potential to improve aviation safety protocols and influence urban planning and lighting designs.

**Skills Developed:** Data analysis, machine learning, GIS, predictive modeling, interdisciplinary collaboration.

## Work Experience

### Sales Associate

Walmart, Yukon, OK

June 2020–Present

- Consistently balanced a retail sales job throughout my undergraduate studies, where I developed time management and leadership skills. In this role, I trained over 20 employees and maintained presentable condition of retail merchandise, contributing to more than 5.5% YoY sales increase in a 100 million dollar-per-year grossing facility.

## Technical Projects

### Rescue-Animal Analytics Dashboard ([GitHub](#))

- Developed a full-stack analytics dashboard for a business using Python, MongoDB, and the Dash framework.
- Implemented interactive data visualizations for an animal shelter's data analysis needs.

### Sorting Algorithm Visualizer ([GitHub](#))

- Created an interactive UI using Python to visually illustrate the sorting methods of heap sort, merge sort, quick sort, and bubble sort.

### Design & Research Repository ([GitHub](#))

- Deployed a full-stack web application with daily traffic using React.js and Firebase.
- Implemented a responsive UX design with careful attention to visual accessibility.

## Service and Leadership Roles

Member, National Society of Leadership and Success (NSLS)

## Honors and Awards

Graduation with Honors and Distinction at SNHU (Summa Cum Laude)  
Alpha Sigma Lambda Honor Society

## Technical Skills

Languages: Python, SQL, R, Java, C/C++, MATLAB, JavaScript

Data technology: PostgreSQL, MySQL, MongoDB, Firebase/Firestore

Tools and frameworks: Git, AWS, Docker, OpenGL, React, Tableau

## Certifications

Google Advanced Data Analytics Professional Certificate; Google LLC and Coursera Inc.  
Business Management and Leadership Certificate, Bellevue University; Bellevue, NE

## Languages and Other Skills

Spanish (Intermediate, B2)

French (Intermediate, B1)

Jazz and Classical Piano