

Joey Paul Eli Haynes

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Profile

Collaborative engineer and researcher focusing on the quality and sustainability of social practices and engineered systems. Experience in statistical analysis, software/systems engineering, and product design.

Education

B.S. in Computer Science, Southern New Hampshire University; Manchester, NH – May 2024

- Minor in Applied Mathematics
- Cumulative GPA of 4.00/4.00

Experience

Research Intern, University of Oklahoma; Norman, OK — August 2023–present

- Conducted exploratory data analysis and utilized statistical and machine learning methods to identify patterns and trends in bird migration and artificial light data
- Collaborated with 5+ interdisciplinary researchers to present research findings and work towards publishing a paper to inform public policy

Grazioso Salvare Rescue-Animal Analytics Dashboard (GitHub)

- Created a full-stack analytics dashboard for a business using Python, MongoDB, and Dash
- Developed interactive data visualization components, including tables, charts, and a geolocation map, allowing stakeholders to access and filter animal shelter data by relevant criteria

Design & Research Repository — jpthefish.com (GitHub)

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

Sorting Algorithm Visualizer (GitHub)

- Developed an interactive UI using Python that visually illustrates the sorting methods of heap sort, merge sort, quick sort, and bubble sort

Sales Associate, Walmart; Yukon, OK – June 2020–present

- Trained and mentored 20+ employees, fostering professional development and job performance
- Enhanced stock and appearance of merchandise, driving over 5.5% YoY sales increase

Skills

Technical Skills

- Languages: Python and SQL; R, Java, C/C++, MATLAB, and JavaScript
- Data technology: PostgreSQL, MySQL, MongoDB, and Firebase/Firestore
- Tools and frameworks: Git, AWS, Docker, Tableau, React, and OpenGL

Certifications

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

Hobbies, Interests, & Other Skills

- Intermediate Spanish language (B2) and French language fluency (B1)
- Performed jazz and classical piano for audiences of 20+ people