

Joseph Williams

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EDUCATION

Auburn University

Aug. 2023 - Dec. 2025

Bachelor of Science in Computer Science, Minor in Statistics

Auburn, AL

- **GPA:** 3.8 / 4.0
- **Relevant Coursework:** Machine Learning, Deep Learning, AI, Data Mining, Probability and Statistics I & II, Data Science with Python, Statistics with R, Database Systems, R Programming, Data Structures & Algorithms (DSA), Linear Algebra I & II

SKILLS

Languages: Python, SQL, Java, R, JavaScript, C++, HTML/CSS

Software Development Tools: Jupyter, pandas, seaborn, NumPy, PyTorch, TensorFlow, sci-kit learn, Git, Anaconda, Docker

Concepts: Machine Learning, Data Pipelines, APIs, OOP, DSA, Data Wrangling, Data Visualization, Statistical Analysis, CI/CD

EXPERIENCE

Protective Life

May 2025 - Aug. 2025

Machine Learning/Data Science Intern

Birmingham, AL

- Incoming Summer 2025 Intern

Auburn University, Dr. Akond Rahman

Oct. 2024 - May 2025

Undergraduate Research Assistant

Auburn, AL

- Demonstrated multiple malicious MITM attacks by exploiting a DNF vulnerability in Ansible utilizing Docker and Python to simulate and intercept traffic for package injection in a controlled Linux environment
- Analyzed 300+ malicious python packages using JSON to annotate reasoning and source for an empirical study

Carole Fay Jewelers

Sept. 2020 - Aug. 2022

Digital Sales Associate

Mobile, AL

- Enhanced user experience (UX), resolved website functionality bugs, and updated inventory listings using HTML/CSS and JavaScript, leading to a 50% increase in traffic and improved customer interaction
- Managed customer relations and fulfilled sales, leading to an 11% year-over-year growth increase in sales conversion rates

PROJECTS

Covid Classifier | Python, PyTorch, CUDA, Anaconda, Jupyter, VS Code, Git

- Preprocessed a large Kaggle dataset with 1M+ rows by engineering features, imputing values, and normalizing inputs for model training
- Developed and trained a GPU-accelerated neural network in PyTorch to predict COVID-19 mortality risk from demographic and health data, optimizing with MSE to achieve accuracy of ~88%

GrubHub Price Match Automation | Python, Tesseract OCR, Selenium, PyCharm, Git

- Automated website price match submissions using Selenium, achieving a 10x speed increase (from 10 minutes to 1 minute)
- Employed Tesseract OCR machine learning along with Python for Optical Character Recognition text extraction logic

Credit Card Rewards Tracker | React, PostgreSQL, Tailwind CSS, HTML, JavaScript, Node, VS Code, Git

- Developed a full stack React app using Tailwind CSS and DaisyUI visuals for credit card bonus calculation and tracking
- Connected a Supabase PostgreSQL backend and configured automatic CI/CD deployment with GitHub and Netlify

LEADERSHIP

Association for Computing Machinery (ACM)

Aug. 2023 - Present

Technical Advisor

Auburn, AL

- **Web Dev Club, Vice President (2025)** - Lectured and co-led development of club's semester web app
- **Competitive Programming Team, Competitor** - 12th out of 110, ICPC 2024 Southeast Division 2 Regional
- **Ethical Hacking Club, Member**

Engineers Without Borders (EWB)

Aug. 2023 - Present

Member

Auburn, AL

- Volunteered for the annual "Water Cycle" cycling charity race, raising \$40K+ to help design and build water distribution systems for rural Guatemalan mountain villages