Joseph Williams

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EDUCATION

Auburn University Auburn, AL
Bachelor of Science in Computer Science, Minor in Statistics Aug. 2023 - Dec. 2025

- GPA: 3.81 / 4.00
- **Relevant Coursework**: Machine learning, Data Structures & Algorithms, Intro. to Artificial Intelligence, Data mining, Probability and Statistics I & II, Intro. to Data Science, Statistics with R, Database Systems, Linear Algebra

SKILLS

Languages: Python, SQL, Java, C++, HTML, CSS, JavaScript, R
Software Development Tools: Jupyter, Anaconda, Git, VS Code, Linux, Node, React, Selenium, pandas, NumPy, PyTorch, Docker
Concepts: Machine Learning, Data Structures & Algorithms, Object-Oriented Programming, Computer Networking, Operating Systems

EXPERIENCE

Auburn University, Dr. Akond Rahman Auburn, AL
Undergraduate Research Assistant Oct. 2024 - Present

- Demonstrated multiple package injections via 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

Carole Fay Jewelers Mobile, AL
Digital Sales Associate Sept. 2019 - Aug. 2022

- Enhanced user experience (UX) and resolved functionality issues on the company website leveraging HTML/CSS and JavaScript, increasing traffic by 50% and improving customer interaction
- Managed and fulfilled product sales, leading to an 11% year-over-year growth increase in sales conversion rates

PROJECTS

Covid Classifier
Tools: Python, PyTorch, CUDA, Anaconda, Jupyter, Git

- Preprocessed a large Kaggle dataset by performing feature engineering, normalization, and data cleaning to ensure model readiness
- Developed a neural network model using PyTorch to predict COVID-19 patient mortality risk based on health and demographic data

GrubHub Price Match Automation
Tools: Python, Tesseract OCR, Selenium, PyCharm, Git

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

Credit Card Rewards Tracker
Tools: React, SQL, HTML, CSS, JavaScript, Node, Vite, VS Code, Git

- Developed a full stack React web app using HTML, CSS, and TailwindCSS with DaisyUI, allowing users to track credit card sign-up bonuses and spending progress
- Leveraged JavaScript and React for dynamic frontend calculations and interactive visuals, providing real-time updates on spending goals
- Integrated Supabase with PostgreSQL as the backend database for secure data storage and hosted on Netlify with automated deployment from GitHub

EXTRACURRICULAR & AWARDS

- **ACM** - Web Dev Club (Vice President), ICPC Competitive Programming Team, Ethical Hacking Club Aug. 2023 - Present
- **Auburn Walt and Virginia Woltosz Creed Scholarship** - 100% of tuition Aug. 2023 - Present