

William Cox

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EDUCATION

Davidson College

Bachelor of Science in Computer Science

Davidson, NC

Aug. 2020 – May 2024

EXPERIENCE

Software Engineer

July 2024 – Present

Wells Fargo

Dallas, TX

- Led implementation of Cloud 9 voice recording infrastructure, integrating with Verba legacy system via custom API connections, data imports, and extension-to-metadata mapping—onboarded 400 regulated users and enabled compliance for 100,000 daily calls.
- Automated 8 voice recording compliance controls with Python and Selenium, ensuring adherence for 1,000+ regulated users and reducing manual oversight by 20 hours weekly.

Software Engineering Intern

June 2022 – August 2023

Wells Fargo

Charlotte, NC

- Worked in an Agile team to develop and maintain a full stack application to replace an outdated and manual process of completing Service Requests
- Improved customer experience by reducing completion time for Service Requests by 75%
- Worked with Java, Javascript, HTML, CSS, and Mendix

PROJECTS

UFC Bout Predictor | *Python, NumPy, Pandas, Scikit-learn, Git*

March 2023 – May 2023

- Engineered and evaluated multiple ML models (KNN, SVM, Random Forest) to predict UFC fight outcomes with over 70% accuracy.
- Scraped and preprocessed structured data from UFCstats.com to build a robust training dataset.
- Presented findings at the Verna Miller Case Symposium, demonstrating effective model interpretation and data storytelling.

Flick Finder | *Python/Flask, ReactJS, MySQL, Scikit-learn, NumPy, Pandas, Bootstrap, Git*

Feb 2024 – May 2024

- Led a 4-person Scrum team as Product Owner and developer for a 10-week project (5 sprints) to build a personalized movie recommendation web app.
- Designed and implemented a full-stack application integrating a content-based ML model with a responsive ReactJS frontend and Flask backend.
- Trained and deployed a recommendation engine on a dataset of 45,000 movies to deliver tailored suggestions to users.

Gridiron Analytics | *MySQL, Python, NumPy, Pandas, HTML, CSS, JavaScript*

Aug 2023 – Dec 2023

- Built a comprehensive NFL database aggregating play-by-play data from 2009-present using Python and MySQL, enabling statistical queries across all game metrics including yards, touchdowns, and play types
- Developed REST API to connect backend database with interactive web frontend (HTML/CSS/JavaScript) featuring player comparison tool with data visualizations

INTERCOLLEGIATE ATHLETICS

Davidson College Football

August 2020 – December 2023

NCAA Division 1 Scholar-Athlete

Charlotte, NC

- Commit 30+ hours weekly to team activities throughout the year, including practice, weights, film study, travel, and competition, in addition to a full-time course load
- Utilize film, statistics, and analytical data to study opponents prior to competitions, as well as during competitions to make real-time adjustments

TECHNICAL SKILLS

Certifications: Cloud Fundamentals (AZ-900), Microsoft 365 Fundamentals (MS-900)

Languages/Frameworks: Java, Python/Flask, C#, JavaScript/React, HTML, CSS, R, MySQL

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Mendix, Unity Engine, DBeaver, MS 365

Libraries: pandas, NumPy, Matplotlib, SciKit Learn