

Jacob Sinclair

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EDUCATION

Washington & Jefferson College - Washington, PA

Expected Graduation: May 2025

Bachelor of Arts, Major in Computing & Information Studies w/ Data Science Emphasis; Psychology

- Alpha Scholar | GPA: 3.88/4.0

PROFESSIONAL EXPERIENCE

Application Development Intern – 84 Lumber – Eighty-Four, PA

May 2024 – Aug 2024

- **Rearchitected** an in-house **Angular** application utilized by the web development team at 84 Lumber, that tracks the statuses for all domains, servers, job scheduler tasks and data transfers. www.84webdev.com/status/
- **Refactored** over **2,500** lines of legacy code, enhancing readability, performance, and maintainability, while bolstering application functionality and user experience.
- **Optimized API** interactions enabling **real-time** display of the latest 40 hour-by-hour status check rows in a user-friendly interface.
- **Collaborated** with the merchandising team to restructure and optimize the Fitness Center **WordPress** site, improving performance, user experience, and site functionality (endpoint only accessible through network at 84 Lumber)

Retail Sales Associate – Nike – Washington, PA

June 2022 – Jan 2024

- Excelled in duties at a high traffic outlet store, including cashier work, stocking, receiving, sales, and customer service.
- Maximized customer-store relationships by connecting more than **150** customers to the Nike+ Membership.

PROJECTS

UFC Statistical Modeling and Analysis

- Performed **exploratory data analysis** of UFC fight data (2010 - current day) with **Python** in **JupyterHub**, creating visualizations and summary statistics with **Altair** and **Pandas**. github.com/jacobsinclair/UFCModeling
- Implemented **machine learning** models, including **decision trees** for feature selection, **random forest classification** with a cross-validated accuracy score of **66%** predicting the winner of a fight.

Aquaculture

- Developed a continuous time **simulation** of 12-week spans, simulating ecological interactions between fish and plant life in aquariums using **Python** and **NumPy** to model chemical interactions. github.com/jacobsinclair/Aquaculture
- Implemented **object-oriented programming** techniques which streamlined code organization resulting in a reduction of debugging time, while improving overall application maintainability and modularity.
- Collaborated with team members to manage project versions and workflows using **Git**, ensuring streamlined development and code integrity.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, C#, HTML, CSS, SQL

Libraries/Frameworks: Angular, PostgreSQL, Selenium, Pandas, Matplotlib, Altair, NumPy, Scikit-Learn, .NET

Development Tools: Git, Figma, WordPress, JupyterLab, Google Console, Monday.com, Visio, Agile

LEADERSHIP

Executive Chair of Health and Safety

Dec 2022 – Present

Alpha Tau Omega Fraternity – Alpha Pi Chapter

- Uphold the guidelines for physical health and well-being for the fraternity while leading and educating over **40** members.

Team Captain: Track and Field/Cross Country

Aug 2022 – Present

Washington and Jefferson College

- Compete in NCAA cross country and track and field, while exhibiting strong mentorship to over **50** teammates.