

William Uvlin

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EDUCATION

Ohio State University

Columbus, Ohio

B.S. in Computer Sciences and Engineering, and Mathematics;

o GPA: 3.70

Expected, May 2026

o **Coursework:** Data Structures & Algorithms, Operating Systems, Statistical Modeling, Low-Level Programming

EXPERIENCE

Marathon Petroleum

San Antonio, Texas

Software Engineer Intern

May 2025 - Aug 2025

- Collaborated on an Agile development team to refactor backend services using Entity Framework Core and the Repository Design Pattern, enabling robust xUnit testing and improving system modularity and reliability.
- Designed and integrated automated frontend health checks using ASP.NET middleware to monitor API availability and trigger developer alerts upon failure, improving system observability and reducing incident response time.
- Independently designed and developed a full-stack Blazor application that integrates with Azure DevOps, Snyk, and SonarQube REST APIs to visualize code quality, security, and CI/CD metrics across department repositories.

J.M. Smucker Co.

Orrville, Ohio

Software Developer Intern

May 2024 – Aug 2024

- Developed a detailed inventory management system using complex SQL queries to track and maintain machine parts data across multiple nationwide manufacturing plants, ensuring high accuracy and real-time updates.
- Created and optimized SQL scripts to facilitate the rapid identification and intra-company transfer of machine parts, minimizing downtime and reducing operational costs by eliminating the need for external procurement.
- Automated the reporting process with advanced SQL functions, enabling swift decision-making for part transfers or purchases, thereby enhancing overall efficiency and cost-effectiveness in response to machine breakdowns.

Orbytel Printing and Packaging

Garfield Heights, Ohio

Software Developer Intern

May 2023- Aug 2023

- Designed a system for dynamic scheduling, resource allocation, and real-time tracking.
- Connected the system with ERP and printer APIs for smooth data flow and accurate updates.
- Implemented error detection, automatic resolution, and multi-channel notifications to reduce downtime.

PROJECTS

Gender Recognition Application

Python, Flask, OpenCV, scikit-learn, NumPy, Pickle, matplotlib, pandas

- Trained gender classification ML model with OpenCV for face detection and scikit-learn PCA/SVM for high accuracy.
- Deployed Flask app with custom SVM for real-time gender prediction, using OpenCV for precise facial analysis.

Today I Learned

Javascript, React, HTML, CSS, Supabase API, Netlify

- Built full-stack “Today I Learned” app with React hooks, Supabase, and Postgres for a scalable real-time backend.
- Optimized Supabase API CRUD with indexing/query tuning for fast data retrieval and smooth user content flow.

Stock Market Web App

Python, Django, RESTful API, Tiingo API, CSS

- Built Django app with RESTful endpoints, async fetching, caching, and IEX Tiingo API for real-time market data.
- Styled responsive frontend in CSS to visualize JSON stock data live, creating clear charts for user insight.

LEADERSHIP

Ohio State Rock Climbing Team

Columbus, Ohio

President

Jan 2024 - Current

- Plan cross-country climbing trips for 100+ students, ensuring smooth logistics, safety, and 95% member satisfaction.
- Led fundraising to secure \$3,000+ in sponsorships and donations, boosting financial stability and club opportunities.

SKILLS

Certifications: AWS Certified Cloud Practitioner

Languages: Java, Python, C#, C, C++, HTML/CSS, JavaScript, SQL(MySQL, Oracle, Postgres), Swift

Developer Tools and Technologies: Git, Docker, Visual Studio, VS Code, Jupyter Notebook, .Net, React, Xunit, Entity Framework

Libraries: pandas, NumPy, Matplotlib, Selenium, OpenCV