

Alexander Li

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EDUCATION

University of Wisconsin - Madison

Madison, WI

Bachelor of Science in Computer Science & Data Science

May 2026

- Relevant Coursework: Intro to Algorithms, Data Structures I, II, Linear Algebra, Intro to Computer Architecture

EXPERIENCE

Software Engineer Intern

June 2024 - Present

Wisconsin Athletics

Madison, WI

- Developed and implemented the frontend user interface for UWBadgers.com using jQuery, Bootstrap, and Gulp.js, enhancing website responsiveness and streamlining build processes
- Designed and implemented RESTful API with built-in form fraud protection, leveraging the .NET framework for robust and secure functionality
- Worked closely with a cross-functional team of 5 in daily stand-up meetings, providing clear updates on sprint priorities, addressing challenges, and ensuring alignment to maintain momentum. Leveraged GitHub for version control and Slack for seamless communication and collaboration

Software Engineer Intern

May 2024 – August 2024

Madison Bach Musicians

Madison, WI

- Utilized WordPress and integrated Square and MailChimp to develop a new website for Madison Bach Musicians to enhance the user experience and streamline interactions for over 1,000 customers
- Successfully migrated the database from Excel to Airtable, improving efficiency and data management for over 5,000 records
- Implemented automations to streamline data entry into Airtable, simplifying the process for managing concert dates, donation amounts, and ticket types (general vs. senior), enhancing overall efficiency
- Integrated a newsletter signup feature, implementing email capture functionality with backend integration for storing subscriber data in a relational database to facilitate digital email distribution

PROJECTS

Census Data Analysis and Prediction for Wisconsin | *SQLite, Geojson, Raster, GeoPandas*

- Utilized various data sources (geojson, shapefiles, SQL databases, and raster data) to extract, transform, and merge datasets for census analysis.
- Built and evaluated regression models to predict population based on geographic and housing features, achieving a variance explanation of over 0.35.
- Employed geographical data plotting with GeoPandas for visual analysis of census tract and county data.
- Conducted feature impact analysis and cross-validation to assess and improve model performance, demonstrating strong data manipulation and machine learning skills.

Smart Marketing Classifier for Retail Website | *Pandas, Numpy, Sklearn*

- Extracted and transformed features from user activity logs and demographic data, incorporating them into a machine learning pipeline.
- Implemented and fine-tuned models using Logistic Regression and other classification techniques to enhance marketing efficiency.
- Leveraged cross-validation and feature engineering to improve model performance and ensure robustness against noise in data predictions.

Books Library | *React, Node.js, Express.js, MongoDB, Tailwind*

- Created a web application that allows users to organize books
- Utilized MongoDB to store book information and which was tested with Postman
- Allows users to save books, authors and publish year, allowing users to switch between card and list view

TECHNICAL SKILLS

Languages: Java, Python, SQLServer, JavaScript, HTML/CSS, R, C#

Frameworks: React, Node.js, JUnit, WordPress, BootStrap, TailWindCSS, .NET

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio

Libraries: pandas, NumPy, Matplotlib