

Noah Li

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Education

University of Wisconsin-Madison

May '27

- **GPA:** 3.8/4.0
- **B.S.** in Computer Science & Data Science
- **Relevant Coursework:** Introduction to Algorithms, Data Science Modeling, Machine Organization and Programming, Matrix and Linear Algebra, Discrete Mathematics, Introduction to Computer Engineering, Data Structures

Experience

Caterpillar Inc.

May '25 & Ongoing

Software Engineer Intern

- Developed an end-to-end API for efficiently transferring machine and tooling issues, utilizing AGILE methodologies
- Automated machine behavior and its overall equipment effectiveness(OEE) using Python, significantly optimizing operator and manufacturing engineer workflows
- Led a group of engineers to formulate an app using C and Python to better analyse the process capability(CPK) of fuel injectors, efficiently ensuring exceptional quality control for the manufacturing of future parts

Data Science For Sustainable Development

Jan '25 – May '25

Software Developer

- Architected digital archive platform for George Mason University's historical documents using HTMX/Go
- Engineered custom search algorithm for efficient retrieval of previously inaccessible archives
- Designed intuitive frontend with database integration for seamless access to historical resources

Komatsu Mining Corporation

Jun '24 – Aug '24

Data Engineer Intern

- Migrated and digitized 15,000+ Fortran Material Specifications into Excel, creating a centralized database accessible to all Komatsu Engineering teams
- Performed comprehensive data validation and quality assurance for engineering documentation across multiple departments
- Streamlined information access across Admin and Engineering groups, reducing search time by 20% and enhancing cross-departmental collaboration

Illinois Central College

Jun '23 - Nov '23

Research Intern

- Designed and implemented a Twitter (X) hate speech detection analysis project, scraping 2,000+ tweets using BeautifulSoup
- Engineered structured datasets by extracting account information, tweet content, and timestamps, then organized data into Excel using Pandas
- Identified that the platform's hate speech detection relies primarily on keyword filtering and Natural Language Processing (NLP) techniques

Dunlap High School Athletics

Jan '23 – May '24

Website Developer

- Developed a website for the Dunlap Boys Tennis Team with HTML and CSS, achieving over 3000 views
- Increased accessibility for parents, student-athletes, and fans of the team

Clubs & Activities

- **Exec Member** of Data Science for Sustainable Development @ UW
 - Manage Social Media Presence as well as help plan meetings and recruit prospective members

Skills & Expertise

- **Languages:** C++, C, Java, Python, Go, HTML/CSS, SQL
- **Frameworks & Tools:** Pandas, BeautifulSoup, Data Analysis, git