Noah Li

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Education

University of Wisconsin-Madison   May '27

- **GPA**: 3.8/4.0
- **B.S.** in Computer Science, **B.S.** in Data Science
- **Relevant Coursework**: Algorithms, Data Structures, Data Science Modeling, Machine Organization and Programming, Matrix and Linear Algebra
- **Clubs**: Exec Member of Data Science for Sustainable Development @ UW

Experience

Caterpillar Inc.   May '25 – Present

Software Engineer Intern

- Developed an end-to-end API for efficiently transferring machine and tooling issues
- Automated machine behavior and its overall equipment effectiveness using Python, significantly optimizing operator and manufacturing engineer workflows
- Led a group of engineers to formulate an app using Python to better analyze the process capability 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- Architected digital archive platform for George Mason University's historical documents using Go and HTMX
- 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 Beautiful Soup
- 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

Skills

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