

# Xuxiang Sun

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## EDUCATION

### University of Wisconsin—Madison, Madison, WI

Sept 2019-May 2023

*Bachelor of Science: Computer Science, Mathematics*

- Overall GPA: 3.89/4.0
- Relevant coursework: Big Data Systems (graduate level), Machine Learning (audit, graduate level), Algorithms, Artificial Intelligence, Computer Networks, Databases, Matrix Methods in Machine Learning, Operating Systems

## EXPERIENCE

### Undergraduate Research Assistant | University of Wisconsin-Madison | Madison, WI Sept 2021-Present

- DARPA's [Automating Scientific Knowledge Extraction Modeling](#) project: Developed a corpus selection mechanism to filter documents in the [xDD](#) knowledgebase for building a knowledge extraction platform from models; Developed a tool for converting Resource Description Framework to Relational Entities and injected entities into xDD.
- Marius (<https://marius-project.org/>) open-source project: Developed an application to convert database to knowledge graph for large-scale deep learning over graphs in Marius using Python; Contributed to the open-source project.

### Software Development Engineer Intern | Amazon Web Services | Seattle, WA May 2022-Aug 2022

- Developed operational tool for querying AWS Aurora's customers' billing data and streamlining billing investigation using Python, SQL, HTML, JavaScript, and Flask, saving 40 hours of work per week for the team.
- Deployed the tool to production environment and solved billing operational tickets for customers using the tool.
- Completed AWS Cloud training, managed project with Agile methodology, and completed code reviews with team.

### Software Engineer Intern | TDS Telecom LLC | Madison, WI Jun 2021-May 2022

- Created Kafka Connectors and Kafka Streams using Java, Python, and KSQL for data ETL tasks to automate processing bulk data replicated from Salesforce, Cloud Jira, App Storage, etc. to the Operational Data Store.
- Created Python crawlers to inventory SAP Business Objects and Oracle database for a Data Catalog tool.
- Maintained Operational Data Store in Oracle Database and monitored Production alerts through Nagios and Kibana.
- Managed projects using Jira with Agile Kanban methodology, completed code reviews for the Data Engineering team.

### Data Scientist Intern | Covestro LLC | Remote Mar-May 2021

- Extracted insights from scientific data using Python (Pandas, NumPy, Scikit-learn) and SQL to support data scientists.
- Cleansed and transformed scientific data to ensure data readiness for data analysis, modeling, and machine learning.
- Built a model deployment workflow and developed SharePoint communication platform for the Digital R&D team.

### Academic Coach | University of Wisconsin-Madison | Madison, WI Feb-May 2021

- One-on-one/group tutored students in the Division of Diversity, Equity and Educational Achievement.
- Taught subjects: Programming I, Programming II, Calculus I, Calculus II, etc.

## PROJECTS

### Official Website for Chinese Students & Scholars Association at UW-Madison Sept 2019-May 2022

- Developed the CSSA official website using HTML, CSS, and JavaScript while serving as the IT department chair, website available at <http://www.cssaatuwmadison.com.cn>.

### COVID-19 Visualizations & Predictions Mar-June 2021

- Python data analysis, prediction, and visualization of confirmed COVID-19 cases based on [data repository from JHU](#).

## SKILLS

- Languages: Proficient in Java, Python, C/C++, SQL; Familiar with C#, HTML, CSS, JavaScript
- Technologies/Frameworks: AWS, GCP, Kafka, Spring Boot, Maven, Oracle DB, MySQL, PostgreSQL, Nagios, Kibana, Elasticsearch, Talend, Snowflake, REST APIs, Linux, Git, Docker, ASP.NET, MVC, Flask, Bootstrap