Xuxiang Sun

501 N Henry St Apt 704, Madison, WI, 53703 * (608) 504-8119 * xsun272@wisc.edu * xuxiangsun.com

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: Algorithms, Artificial Intelligence, Computer Networks, Databases, Operating Systems

EXPEREINCE

Undergraduate Research Assistant | University of Wisconsin-Madison | Madison, WI   **Sept 2021-Present**
- Developed RDF to relational entities conversion tool and injected entities into the xDD knowledgebase.
- Worked on the ASKEM (Automating Scientific Knowledge Extraction Modeling) project funded by DARPA with researchers in Center for High Throughput Computing and other institutions.
- Developed database to knowledge graph conversion tool for large-scale deep learning using Python and contributed to the open-source project Marius (https://marius-project.org/).

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 Engineer 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 and deployed the official website using HTML, CSS, and JavaScript. Preview at cssaatuwmadison.

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