

# Suxin Ji

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Technical strengths include systems programming, machine learning, and data engineering.  
Open to full-time opportunities starting now.

## EDUCATION

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### UNIVERSITY OF GEORGIA

Ph.D. Student in Computer Science

Athens, GA

Aug 2024 – Present

- **GPA:** 4.0/4.0
- **Research Focus:** Dynamic Binary Translation Optimizations

### UNIVERSITY OF PENNSYLVANIA

Master of Science in Engineering in Data Science

Philadelphia, PA

Jan 2023 – Aug 2025

- **GPA:** 4.0/4.0

- **Core Courses:** Big Data Analytics, Machine Learning and Statistics, Computer Systems Programming, Algorithms and Computation, Natural Language Processing, GPU Computing, Artificial Intelligence, Medical Image Analysis

### SOUTHERN UTAH UNIVERSITY

Bachelor of Science (B.S.) Management Information Systems

Cedar City, UT

Jan 2018 - Aug 2021

- **GPA:** 3.9/4.0

- **Core Courses:** Data Structure, Statistics, Discrete Structures, Algebra, Database, Algorithm, OOP in Java

- **Awards:** Honored with Summa Cum Laude and selected into the Dean's List

## PROFESSIONAL EXPERIENCE

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### DATAWATCHING

Solutions Engineer

Roseville, CA

Mar 2023 – Jul 2024

- Solo developer of a production-grade Incorta data application and Java-based connector for Oracle JD Edwards, adopted by multiple clients across several versions. The solution outperformed legacy alternatives by increasing report coverage by 20% and reducing data pipeline latency by 50%.
- Led integration of AI/ML modules and enhanced analytics capabilities across platforms including BigQuery and Workday Adaptive Planning, driving automation and boosting product value.
- Created and maintained the company's official website and [YouTube](#) tutorials. One tutorial garnered over 3K views, was widely shared among partner companies and clients, and directly contributed to 20+ potential client leads.
- Presented technical solutions to stakeholders and clients, incorporating feedback and demonstrating strong ownership, problem-solving, and communication skills.

### INCORTA

Data Engineer

San Mateo, CA

Nov 2021 – Nov 2022

- Engineered and deployed machine learning solutions to optimize business processes, utilizing Python, R, and PySpark for data modeling and analysis, improving client data processing speed by 30% compared to legacy solutions.
- Built the Incorta DataPrep API from design through documentation to support efficient data manipulation.
- Conducted rigorous integration testing and delivered critical feedback, leading to a 15% increase in product reliability and fewer customer-reported issues.
- Developed widely-used [YouTube](#) tutorials that helped customers onboard quickly and solve real-world use cases, accelerating product adoption and improving the overall user experience.
- Ranked among the top 3 contributors in the [Incorta Community](#) by helping users troubleshoot and guiding them to effective solutions, boosting customer satisfaction and platform adoption.

### INCORTA

Technical Intern

San Mateo, CA

Jun 2019 – Apr 2021

- Performed A/B testing on pre-release Incorta Data API using Jupyter Notebook to support product development.
- Developed time series models using ARIMA and Prophet to support Incorta's one-click forecasting feature.
- Built visual dashboards in Incorta to demonstrate product features and job analytics.
- Documented ML pipeline instructions through [Blogger](#) postings, daily view 100+, increasing exposure for technical team.
- Refactored Python-based log parsers to unify data extraction tools across multiple Incorta versions.

## TEACHING EXPERIENCE

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### UNIVERSITY OF GEORGIA

#### Graduate Teaching Assistant

Athens, GA

Jan 2025 – Present

- CSCI 1302: Software Development

Assisted in teaching Java-based object-oriented programming, modular software design, and data structures. Provided in-person office hours and project-based support.

- CSCI 3360E: Data Science

Supported instruction in Python programming, machine learning, dimensionality reduction, and data visualization. Answered student questions, clarified technical concepts, and graded assignments with timely feedback.

## RESEARCH EXPERIENCE

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### UNIVERSITY OF GEORGIA

#### Research Assistant

Athens, GA

Aug 2024 – Present

- Conducted research on system call emulation correctness in QEMU under the supervision of Prof. Wenwen Wang, focusing on Dynamic Binary Translation optimizations.

- Designed and implemented an independent syscall testing framework to compare native and QEMU-emulated behavior, with automated test generation, execution, and result analysis.

- Identified syscall emulation inconsistencies and limitations in existing testing tools, and developed mechanisms to uncover previously undetected QEMU bugs.

## PROJECT EXPERIENCE

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### KIWI – Database-Driven Web App

Apr 2024

*Database & Information Systems, University of Pennsylvania*

- Designed and implemented a full-stack web app with SQL-backed data management and custom query functionalities.
- Developed both client and server modules for user interaction, data retrieval, and persistent storage.

### Redfin Housing Market Prediction

Dec 2023

*Big Data Analytics, University of Pennsylvania*

- Preprocessed large-scale housing market data using KNN imputation, outlier removal, and PCA.
- Built and evaluated predictive models including linear regression (Spark & scikit-learn), random forest, gradient boosting, and neural networks.

### KAGGLE COMPETITION - COMMONLIT READABILITY PRIZE

Jun 2021

*Goal: Rating the complexity of reading passages for grade K 12 classroom use, optimizing reading selections, and benefiting reading skills*

- Led in a team of four in Kaggle competition in PyTorch on Google Colab platform.
- Implemented a BERT model for NLP regression tasks in pretraining the passages and predicting the readability.
- Achieved top 1% scores in the leaderboard and won the silver medal.

### CAPSTONE PROJECT - SCHOOL LEARNING MANAGEMENT SYSTEM

Jan 2021

*Goal: Improving the student and teacher performance with unstructured big data analysis*

- Analyzed the requirements and functionality of the Canvas LMS using Canvas Docker image deployed in Azure Cloud.
- Developed ETL process for data manipulation and warehousing through PostgreSQL database.
- Built dashboards and reports for various dimensions for teachers, students, and administrators using Incorta.

## Technical SKILLS

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- **Languages:** Python, Java, C/C++, SQL, R
- **Frameworks & Tools:** Spark, PyTorch, CUDA, NumPy, Pandas, Scikit-learn, Docker, Git, Linux, Bash, MySQL, PostgreSQL, Tableau, Excel, Incorta
- **Cloud Platforms:** Azure, GCP, Alibaba Cloud