Connor Joseph Ludwig

Senior Staff Software Engineer

 Chicago, IL, US

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Versatile and results-driven Full-stack Software Engineer with a proven track record in leading technical initiatives within startups and Fortune 500 companies. With over 8 years of experience, excels in developing robust tools and scalable systems that enhance productivity and drive business growth. Strong communication and collaboration skills shown through technical mentorship, advising cross-functional stakeholders, and consulting with customers to identify optimal solutions.

Professional Experience

Senior Staff Software Engineer, *Built Technologies, Nashville, TN (Remote)* 1/2024 to Present
- Technical leader focused on designing high-throughput, financial systems within a FinTech startup
- Owned event driven architecture implementations, tasked with creating reliable and scalable solutions
- Led crucial eventing data consistency project to unlock >$5 million in ARR
- Implemented real-time financial processing using Flink to drive key customer adoption
- Established robust observability tools for eventing workflows, achieving a 90% reduction in failures
- Spearheaded critical initiative in elevating system resiliency to achieve a 99.999% SLA
- Identified and addressed infrastructure inefficiencies, leading to a 30% cost reduction in key services
- Authored influential technical documents and architectural proposals for division of >100 engineers

Full-stack Staff Software Engineer, *Deere & Company, Chicago, IL* 9/2022 to 1/2024
- Primary engineer of novel software licensing API platform facilitating $10 billion in recurring revenue
- Implemented robust security measures and fraud detection systems leveraging IoT information
- Enhanced trust and safety in financial transactions and ensured compliance with privacy regulations
- Mentored 10+ junior engineers from across department on technical development and career growth
- Modernized team's engineering best practices and improved delivery velocity by 2x
- Consulted in staffing decision making for organization of >30 engineers

Backend Senior Software Engineer, *Deere & Company, Urbandale, IA* 9/2021 to 9/2022
- Launched scalable system to support over 100,000 IoT devices annually across product lines
- Advised 20+ cross functional product stakeholders to guide product definition
- Developed ETL data pipeline for digital sales department with 10,000+ users
- Architected a distributed API web service with IoT system integrations using Amazon Web Services
- Established CI/CD processes in team codebases to reduce deployment times by >30%

Full-stack Software Engineer, *Deere & Company, Moline, IL* 1/2018 to 9/2021
- Managed an enterprise data lake platform fronted with Databricks with 2,000+ customers
- Introduced data governance web app using React & Node.js for over 1,000 datasets of petabyte sizes
- Lead creation of UI/UX development standards to improve code quality and reduce defects
- Improved cloud architecture for large-scale data ingest and egress

Software Engineer Internships 5/2015 to 8/2017
- **Deere & Company, Moline, IL:** Established models for securing cloud data access for 2,000+ engineers
- **Boston Scientific, Arden Hills, MN:** Developed a suite of 50+ regression tests for mobile sales app

Key Projects

Real-time Calculation Processing   6/2024 to Present

Built event driven solution to process complex financial calculations with focus on accuracy and low-latency. Core project with turnaround time of 1 month to meet tight product release timeline.
Stack: AWS, PyFlink, SQL, Terraform, Kafka, Lambda

Recurring Revenue Licensing Service   9/2021 to 12/2023

Implemented novel licensing API platform, enabling seamless ordering of embedded technologies. Included IoT license delivery, elevated data collection, and expanded product marketing options.
Stack: AWS, Terraform, API Gateway, Dynamo, S3, IoT, Lambda, Node.js Protobuf, Linux, C++, QT, MQTT

Enterprise Data Catalog   9/2019 to 9/2021

Created modern web application to simplify data discovery, governance, and management for Deere's data lake. App housed 1,000s of datasets with a variety of API integrations for data management.
Stack: React, Spark, Next.js, AWS, Cloudformation, EC2, Dynamo, API Gateway, Lambda

Technical Skills

JavaScript • Typescript • Node.js • Python • SQL • Java • React • HTML • Gatsby • Express.js • Git • Terraform • AWS • GitHub Actions • Jest • Scala • Docker • Spark • Pandas • DataDog • Kubernetes • CSS • C++ • Protobuf • Flink

Relevant Certifications & Experience

- AWS Developer Associate (Certified)
- AWS Solutions Architect Associate (Certified)
- Python for Data Science (Certified)
- Blue River Machine Learning & AI (Certified)
- Front-end, back-end, & API development
- Unit and Integration Testing
- Agile development practices
- Conducting regular code reviews
- Designing distributed systems
- Implementing event-driven pattern
- ETL development and support
- Improving availability, latency, & scalability
- Expert communication & collaboration skills
- Cloud infrastructure and security practices

Education

Iowa State University, Ames, IA   8/2013 to 12/2017

Bachelor of Science - Cum Laude

Majors: Management Information Systems, Supply Chain Management   **Minor:** Computer Science

Leadership & Honors

Built Impact Award Winner ('25)

ISG Hackathon "Tools & Infrastructure" Winner ('23)

Deere Embedded Solutions "Exceptional Collaborator Award" ('22)

Databricks Data & AI Summit "Data Team Innovation Award" Winner ('21)

John Deere DeepRacer AI & ML Challenge Champion ('20)