Connor Joseph Ludwig
Staff Software Engineer

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Staff Software Engineer at John Deere with over 5 years of experience leading teams to deliver positive business results. Launched a recurring revenue system for a Fortune 100 company. Skilled in creating and supporting distributed microservices, data science and analytics platforms, and web applications. Routinely masters new technologies to meet project needs. Open to relocating for the right position.

Professional Experience

Deere & Company, Moline, IL

Staff Software Engineer, Backend & Embedded, Smart Activations — September 2022 to Present

- Primary engineer of novel software licensing service enabling $10 billion in recurring revenue
- Architected a distributed backend web service with IoT system integrations using Amazon Web Services
- Developed data pipeline for digital sales department with 10,000+ users
- Technical lead for team of 10 developers
- Modernized team's engineering best practices and improved delivery velocity by 2x
- Consulted in staffing decision making for organization of 30+ engineers
- Advised 20+ business stakeholders to guide product definition

Senior Software Engineer, Backend & Embedded, Smart Activations — September 2021 to September 2022

- Launched scalable system to support over 100,000 devices annually across product lines
- Engineered core cloud infrastructure for new licensing service to support 1,000s of requests a second
- Established CI/CD processes in team codebases to reduce deployment times by >30%
- Deployed serverless monitoring and logging for over 20 microservices
- Spearheaded secure cryptographic processes to protect billions of dollars in company revenue

Software Engineer, Fullstack, Enterprise Data Lake Platform — June 2019 to September 2021

- Managed 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
- Automated data discovery within enterprise data platform
- Improved cloud architecture for large-scale data ingest and egress
- Consulted over 100 customers to identify optimal data solutions based on need

Software Engineer, Global IT HR — January 2018 to June 2019

- Enhanced wide range of HR application technologies including SAP and Java Web Apps

Software Engineer Intern and Part Time Student, Global IT Security — May 2017 to August 2017

- Established models for securing cloud data access for 50,000+ employees
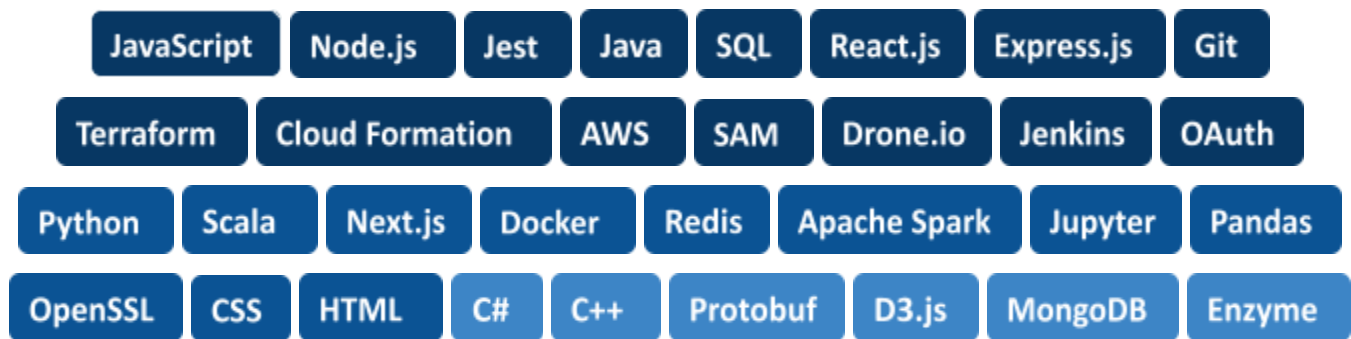
Boston Scientific, Arden Hills, MN

Software Engineer Intern — May 2015 and May 2016

- Developed an automated suite of 20+ regression tests for mobile sales app using Selenium

Technical Skills

JavaScript · Node.js · Jest · Java · SQL · React.js · Express.js · Git
Terraform · Cloud Formation · AWS · SAM · Drone.io · Jenkins · OAuth
Python · Scala · Next.js · Docker · Redis · Apache Spark · Jupyter · Pandas
OpenSSL · CSS · HTML · C# · C++ · Protobuf · D3.js · MongoDB · Enzyme

Relevant Certifications & Experience

- AWS Developer Associate (Certified)
- AWS Solutions Architect Associate (Certified)
- Python for Data Science (Certified)
- Blue River Machine Learning & AI (Certified)
- Well Architected system design
- CI/CD implementation
- RESTful web services & API Development
- Web development
- Test Driven Development
- Databricks
- ETL data operations
- Distributed systems
- Containerization
- Agile methodology & ceremonies
- Front and Back-end development
- NoSQL Databases

Education

Iowa State University, Ames, IA   August 2013 to December 2017

    Bachelor of Science - Cum Laude

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

Leadership & Honors

SHPE National Convention Representative & Technical Evaluator ('22)
Deere Embedded Solutions "Exceptional Collaborator Award" ('22)
Deere Chicago Tech MeetUp Representative & Technical Evaluator ('22)
Big 12 Career Fair Representative ('22)
Databricks "Data Team Innovation Award" Winner ('21)
JD Smart Co-Creation DeepRacer Challenge Champion ('20)
New and Experienced Organizational Network (NEON) Chair ('19 - '22)
Bettendorf High School Computer Science Course Mentor