

Hosam Abdeltawab

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Skills

- C# | Java | JavaScript | TypeScript | MSSQL | Node | Express | React | NextJS | Redux | Python | NoSQL | GraphQL | Git | OOP
- Azure | AWS | GCP | CI/CD | Jest | Unit Testing | Docker | Kubernetes | Terraform | Lambda | GitHub Actions
- Microservices | Frontend | Backend | Full-Stack | English, Arabic – **All professional proficiency or above**

Work Experience (8 Years)

John Deere

Remote

Senior Software Engineer

February 2022 – Present

- Leading cross-functional teams in the design, development, and deployment of innovative solutions
- Delivering modern Full Stack solutions to support the vendor material sourcing processes
- Utilizing Amazon Web Services (CloudWatch, Lambda, EC2, S3) to optimize cloud-based solutions and infrastructure
- Building robust RESTful APIs and microservices with React, Java, and Spring Boot

Quality Consulting Inc.

Des Moines, IA

Senior Software Engineer

April 2019 – February 2022

- Developed the back-end infrastructure used for monitoring, and tracking John Deere tractors using ReactJS & .NET
- Designed the architectural blueprints for backend RESTful APIs, catering to the intricate demands of diverse enterprise infrastructure (Corteva)
- Lead the onboarding process of new incoming Software Engineers
- Mentored new Software Engineers on RESTful technologies and Agile methodologies using ReactJS

Iowa State University

Ames, IA

Software Engineer

August 2017 – December 2018

- Developed ISU Students AccessPlus portal's full stack technology and security
- Enhanced students' projects and assignments to promote their interests and involvement in the learning process
- Mentored students in the field of Software Engineering, making sure that the information is well-perceived and understood

Genova Technologies

Cedar Rapids, IA

Software Engineer

May 2017 – August 2017

- Enhanced, engineered, and rigorously validated controllers for John Deere trucks within an Agile-driven environment
- Engaged in client consultations to discern their project requirements, ensured ongoing application status updates, and addressed any technical challenges.
- Crafted code that is both sustainable and readily expandable within the collaborative agility of a team setting, employing C/C++ and Java, and managed continuous integration and deployment procedures through Jenkins

Three Commas, LLC

Remote

Consulting Full-Stack Engineer

May 2015 – January 2017

- Built modern applications using Azure, C#, ReactJS, SQL server, and .NET and supported the company's development and testing processes
- Redesigned the CI/CD process with Azure from scratch, speeding up loading and deploying

Projects

JD-SVAP (Service Admin Portal)

- Modern web app for streamlined service agreement management within John Deere DBS 365
- Utilized React and Redux Toolkit for the frontend, and employed PostgreSQL as the database management system, providing a scalable and efficient data storage solution
- It provides insights into service agreement profitability for informed financial decisions and also allows users to track upcoming work and receive timely notifications

JD-Link

- A ReactJS & AWS Project that monitors and reports JD's equipment's data in real-time with tracked equipment health data and battery level
- The App also manages location services as well as handling reports and mapping data from the db server to the client.

Education

M.Eng. Computer Engineering

Ames, IA

Iowa State University

September 2019 - December 2021

B.S. Software Engineering

Ames, IA

Iowa State University

August 2014 - December 2018