

John Heerman

Senior Software Developer

E: jheerman@protonmail.com

Executive Profile:

Software professional with more than 25 years of experience. Understands the needs of both developers and operations teams, and is able to develop solutions that meet the needs of both groups. Specializes in the design, implementation, and management of cloud-based solutions on Amazon Web Services (AWS). Strong communication and teamwork skills.

Professional Experience:

Since Jan 2021

AGCO Corp - Hesston, KS (Remote)

Technical Lead and Systems Architect (Digital Farming Solutions Team)

Leadership role in systems architecture, design, development and implementation of precision agriculture and digital farming products and services. Built end to end IoT solutions for internal and external customers. Contributed to process improvement and coding standards. Created and maintained documentation including implementation guides, application architecture diagrams, and design documents. Assumed leadership role as a Developer Advocate and Software Apprenticeship programs.

August 2018 -
January 2021

AGCO Corp - Tremont, IL

Senior Lead Developer (FUSE Team)

Lead developer on AGCO's global open platform team for digital farming products. Responsible for leading and mentoring a team of 5-10 engineers that delivered services for IoT edge and cloud data processing. Worked with product owners and other development team members to determine the scope for delivering new products.

Leveraged DevOps tool stack to build, inspect, deploy, test and promote software. Created and maintained documentation to support development efforts.

Participated in code reviews to ensure that each increment adhered to requirements described in user stories, followed appropriate use of standard libraries, and compliance to established design patterns and coding standards.

Participated in all team ceremonies including planning, grooming, product demonstrations and team retrospectives.

June, 2012 -
August 2018

Odessian, LLC - Peoria, IL

Founder and Senior Developer Consultant

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Developed and built software consulting business from start up. Formed strategic alliances with business leaders and partners to drive sales. Created marketing presentations and demo products for exhibitions, trade shows, and community user groups.

Full-Stack development utilizing modular/microservice architecture. Implemented solutions using agile software engineering practices, coding and testing standards, and continuous delivery. Focused on emerging technology solutions. Demonstrated flexibility to adjust to new challenges across the stack.

Developed integration platform for serverless ETL. Solution built on AWS cloud including API Gateway, Lambda Fx, Simple Queuing Services. Developed custom adapters to integrate legacy and cloud-based applications such as Caterpillar DBS (DB2), Microsoft Navision, JIRA, and Salesforce.

Developed a web solution for a global strategic account management organization. Allow members to search, download, and purchase digital resources; sign up for conferences, academies, symposia, and webinars. Django/python web application and content management, Apache Solr search engine, AWS cloud, django-rest-framework API, Postgresql back-end. Scrum/Agile disciplines.

Worked with a team of developers and engineers to convert a monolithic web application into microservices using React.js, NancyFx, MongoDB, and RabbitMQ.

Developed web applications for submitting and reviewing loan applications for the largest agricultural lender in Illinois.

Designed and developed a web-based admissions and financial services application for a nursing college. Django/Python application with a responsive UI to manage students, courses, financial aid, and billing.

Django/Python developer consultant for a US-based Sweepstakes/Gaming organization.

October, 2005 -
June, 2012

Advanced System Designs - Morton, IL

Senior Developer Consultant

Designed Satchmobile, a Xamarin mobile application for Android and iOS. Satchmobile is a mobile companion to Satchmo, an open-source web storefront.

Leveraged django-cms, an open-source content management system (CMS), to build and maintain public web sites. Customized Satchmo, a django-based open-source online store, to manage catalogs and product offerings for e-commerce projects. Created enterprise web applications using Castle Project's open-source .Net application framework (MonoRail MVC web framework, NHibernate, and Windsor IoC container), cross-platform javascript libraries, and MS SQL. Designed custom data services to facilitate the exchange of information between line-of-business apps.

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Part of a project team that designed and implemented a serious game for a post-frame construction company. Windows desktop application developed using .Net framework, DirectX API, and MS SQL. Render models in a 3D world, generate quotes and contracts, and synchronize data between the corporate office and sales reps in the field.

**July 2002 -
October 2005**

PAL Health Technologies - Pekin, IL

IT Director

IT project coordinator and member of operations team

Project lead on the design and implementation of a custom 3D modeling application using Delcam's CAD/CAM software API, .Net framework, and Mastercam CNC toolpaths. Objective was to scan a physical shape, generate a point cloud, and map to an existing library of CNC toolpaths to eliminate sizing and cutting errors from the manufacturing process.

Project lead on the design and implementation of a custom CRM application with custom integration with Microsoft Dynamics.

Designed and implemented plans for disaster recovery, remote access and administration, automating manufacturing processes, and measuring labor productivity via barcode scanning. Automated processes to exchange data between Accounts Receivable, Accounts Payable, Human Resources, and Production Supervisors.

**June 1999 -
July 2002**

Heartland ITS - Peoria, IL

Senior Application Developer Consultant

Tech lead on a project to re-engineer a Microsoft Windows desktop Customer Information System (CIS) written in classic Visual Basic into a web application written in PHP running on Redhat Linux. Developed custom integration processes in PL/SQL to create, read, update, and delete data in Oracle application database.

Tech lead on development of a custom Microsoft Windows desktop application to sync customer, pricing, and contract data for a large sales force of a global construction and mining equipment manufacturer.

Tech lead on development of a custom Microsoft Windows desktop application for a local hospital to schedule patient labs and manage supplies and inventory. Support for custom Java processes to extract and load EDI translated data into Oracle via JDBC and SQLJ.

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Custom web development in Cold Fusion and classic ASP

June 1998 -
June 1999

CILCORP - Peoria, IL

Application Developer

Member of CILCORP Illinois electric and gas deregulation team. Designed and supported EDI data translation processes using IBM Edge and Sterling Commerce Gentran software

Designed and implemented applications using classic Visual Basic, classic ASP, C++, and Oracle Pro*C

Education:

B.S. Computer Information Systems - Bradley University, 1999

Computer Information Systems - Illinois Central College, 1997

Specialties:

software development
system design and architecture
coaching / training / mentoring / leadership
technology research and implementation

Dev: Python, Django, Flask, Java, Spring, Node.js, React.js, Flux, Webpack, Enzyme, ES6, Sinon, Jasmine, Karma, C#, Xamarin, .Net core

Devops: Git, vim, ssh, docker, GNU/Linux, nginx, cloud, AWS, Azure

Design: TDD, IoC / DI, SOLID, Microservice Architecture

Data: MongoDB, MySQL, PostgreSQL, MSSQL, Oracle, RabbitMQ, Apache Solr, Apache Kafka

Interests

Coaching Softball (ASA/USA Certified), Reading, Clean Code, Agile