Dan Houseman

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Summary

Hi I'm Dan - a polyglot software engineer & solutions architect with extensive experience in multiple industries.

I specialize in AI, NLP, & Cybersecurity with a pragmatic approach to engineering, design, and usability.

While technology is my passion, I also play hard in the creative arena. I produce, style, and direct fashion productions from magazine covers and editorials to NYFW productions.

Experience

VP Retail Banking Technology / Senior Software Architect
PNC
Sep 2019 - Present (3 years 5 months)
Set the standards for enterprise banking applications. Retail Banking, Digital Home Lending, & Originations.

Responsible for making make design decisions, coordination of technical standards, and best practices including code and security standards, tools, platforms, and integrations.

Chief Technical Advisor
Bunny Paige
2011 - Present (12 years)
I am responsible for the executive decisions with regards to the technological interests of Bunny Paige.

I outline and ensure the execution of the technological vision by implementing technology strategies, and ensuring that the technological resources are aligned with Bunny Paige's business needs.

Creative & Technical Director
Studio West 117
Oct 2019 - Jun 2021 (1 year 9 months)
Facilitate architectural design and decisions regarding technology infrastructure.

Design and implement business solutions where it comes to technology and integrations.

Develop and maintain branding, web presence, social media, and direct all creative aspects of the studio complex.

Technical Services Consultant
Kevin Johnn Atelier
Oct 2015 - Jan 2020 (4 years 4 months)

Technical consulting including but not limited to web and app development, material sourcing, networking and catalog creation.

Director of Emerging Technology
FTL MODA
Sep 2017 - Nov 2019 (2 years 3 months)
Responsible for developing the roadmap for how technology supports the agency's strategic goals.

Technical set design and production for fashion editorials and events including runway for NYFW.

Machine Learning Engineer
Drips
Jul 2017 - Oct 2017 (4 months)
Contract: Engineering Natural Language Understanding & Intelligent Services.

Senior Full Stack Software Engineer
Robots and Pencils
Mar 2017 - Jun 2017 (4 months)
Contract: Custom Mobile, Web, & Desktop software development.

Manager, Senior Software Engineering
ForeSee (acquired by Verint)
Jan 2016 - Mar 2017 (1 year 3 months)
** Part of Answers Corporation

+ Technical Architect, Project and Product Manager, Subject Matter Expert, Researcher and Developer for Foresee Text Analytics Platform component to CXSuite / VOC portal.

* Managed, Lead, Mentored teams of engineers in Ann Arbor, Beijing, San Francisco, & Cleveland.

* Executed and nurtured a collaboration with engineers at IBM to integrate Watson into our platform for of state of the art AI, ML and cognitive insights.

* Worked closely with Alchemy Language to integrated and fully utilize their Natural Language Processing (NLP) API within our own systems.

* Developed and integrated techniques in Information Retrieval and NLP to analyze, classify, and visualize both structured and unstructured data.

* Implemented and developed models for algorithms and classification systems to train, test and validate industry specific classifiers.

* Designed, developed, and integrated machine learning into Text Analytics to identify actionable insights for clients while creating industry specific standard heuristics.

* Used state of the art research to develop methodologies of extracting various aspects surrounding the

'emotional context' of text.

Senior Software Engineer & PM

Answers

May 2011 - Mar 2017 (5 years 11 months)
** Experience spans from 2011 - 2017 over all Answers brand companies via acquisition of Easy2, WebCollage, Reseller Ratings, and Foresee.

+ Project Manager, Subject Matter Expert, Researcher and Developer for Answers / Foresee Text Analytics Platform.

* Architect of Text Analytics Platform - A microservice Solution using Natural Language Processing (NLP) to analyze, classify, and visualize both labelled and unlabeled open ended survey data (Java, JIRA, Git, AWS).

* Consistently demonstrated the value behind NLP, NLU, and sentiment analysis.

* Collaborated with IBM Watson Group and Taste Analytics to help enhance, guide and develop and test
smart applications.

* Collaborated with UI/UX designers providing input and guidance on data visualizations to maximize consumer comprehension and ease of use (React, Node, D3.js).

* Managed and extensively collaborated with our remote team of engineers in Beijing guiding them on integration with various systems as well as ensuring the integrity of map reduce jobs (AWS)

* Applied and developed algorithms such to measure and track keywords, topics and sentiment and to predict social influence throughout social networks (Java, AWS).

* Created an evaluation and ranking algorithm for comparing and contrasting features and efficacy of various libraries, statistical packages and other NLP related software. OpenNLP, NLTK Stanford NLP, MALLET, AlchemyAPI, Taste Analytics, Lexalytics, Gensim, Word2Vec, and my own solutions.

Senior Software Engineer

Webcollage (now Syndigo)
May 2013 - Feb 2017 (3 years 10 months)
** Part of Answers Corporation.

+ My skills were required across all business units acquired by Answers Corp - assimilating, upgrading, enhancing and integrating disparate and proprietary systems and architectures.

* Technical lead developer Usability and Heuristics Audit and Testing (UHAT) software (C#, MSSQL, Git, Team City).

* Lead developer of Answers Portal - A SSO solution providing a unified gateway and marketing interface that integrates proprietary customer and business portals into a unified system (Java, Oracle, Git, Jenkins, Maven, Angular).

* Enhancements, development and support of ForeSee Results - Foresee Services Enterprise Portal such as new API endpoints, security enhancements, SalesForce integration, reporting and other tools centered around advanced respondent data and analysis (SalesForce, Java, C#, Angular, JIRA, Jenkins, MSSQL, MySQL, Oracle, Sequelize).

* Provided critical information gap-analysis, and insight into the conversion and migration of Easy2 systems into WebCollage's architecture and preemptively identified and provided solutions to both technical and potential client-facing issues (C#, Node, XML, MySQL, MSSQL, PHP).

* Responsible for the transformation and migration of Easy2's rich content and interactive demos into WebCollage's Content Publisher System (Sequelize, Node, MSSQL, MySQL, PHP).

* Responsible for the integration of Easy2 Syndication Networks v1 and v2 into WebCollage's Content Publisher System - enhancing their system while still maintaining and seamlessly delivering content with Easy2's Syndication Network v2 (C#, Entity Framework, Bash, Java, Git, Trello).

Software Engineer

Easy2 is now Webcollage, an Answers solution
May 2011 - Apr 2013 (2 years)
** Acquired by Answers Corporation.

+ Executed and enhanced the Easy2 Syndication Network v2 - A Global Rich Media Content Syndication Network that uses artificial intelligence and machine learning (C#, Git, Trello, Angular).

* I delivered a simple, streamlined integration solution to serve rich content, improve SEO, increase sales and conversion, and lower blood pressures.

* Collaborated with the management and technical teams of the largest domestic and international retailers and manufacturers to implement our software solutions. Lowes, Coach, Target, Best Buy, Chanel, Walmart, Dell, Microsoft, Amazon, Mattel, Dicks Sporting Goods, Plantronics, etc (C#, Angular, Team City, Team Foundation).

* Enhanced, and maintained MYO Demo 3.0 and 4.0 by converting Flash demos into responsive, feature-rich, cross-browser compliant HTML5 demos. (C#, Angular, Git).

* Consolidated and optimized existing MSSQL databases: tables, triggers, stored procedures, user defined functions as well as performed index and query optimizations leading to an overall performance increase and a savings of four hours a week of maintenance time (MSSQL, Entity Framework).

* Independently wrote many front end CRM-like business tools including standard and enhanced reporting, graphs, jobs, alerts, auto-emailers, etc (C#, Angular, React, JQuery).

Senior Web Application Developer

Upright Publishing
Dec 2009 - 2011 (2 years)
Application and web development.

SEO & Marketing.

Custom Wordpress development.

Senior Software Developer, SQL Server DBA, & Sharepoint Administrator
Farmers Insurance
2006 - 2009 (3 years)
Acting SQL Server DBA - General DBA duties.

Developed EDMR - Electronic Document Management Repository -

Created MailScan - An intelligent scanning solution using OCR and ICR doe automatic filing.

Wrote Syn Export - Exported data from Synergy, a legacy document management system into a new repository system: EDMR

EDMR Search - Functionality to search and manage EDMR.

Sharepoint Administrator and MOSS 07 Developer - Upgrade of Sharepoint 2003 to MOSS 07 and other duties typical of a Sharepoint administrator and developer.

Updates and enhancements to the Change Management System.

Senior Web Application Developer & Support Technician
2003 - 2008 (5 years)
Write a custom CMS acting as LMT Fette's distributor login and extranet system.

Wrote time tracking software that integrated directly with Great Plains, the CMS and Microsoft Navision.

Programmed the CMS to include integration with Navision and USPS in order to quickly place and track orders while maintaining the stock-break pricing options and availability functionality from Navision.

Acted as technical and network support for the local office.

Software Developer
Vertafore
2005 - 2007 (2 years)

Education

Stanford University School of Engineering
Computer Science, Artificial Intelligence, Machine Learning
2011 - 2011

American InterContinental University
Associate's Degree, International Business/Trade/Commerce

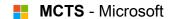**University of Phoenix**
Mathematics and Computer Science

Udacity
Artificial Intelligence
2017 - 2017
The Artificial Intelligence Nanodegree Team

Licenses & Certifications

MCTS - Microsoft

CEH - EC-Council
Issued Apr 2020 - Expires Apr 2021

Skills

IT Strategy • Computational Linguistics • Natural Language Processing (NLP) • Network Security •
Information Security • Cybersecurity • Penetration Testing • Red Teaming • Amazon Web Services
(AWS) • Algorithm Development

Honors & Awards

Outstanding Contribution Award - Jinlin Wang Ph.D, CTO of Answers
Dec 2014
"Dan has been instrumental in setting up the backend process for the Easy2 migration which has been
a major goal for 2014. He ensured this process would work flawlessly by collaborating with Easy2 and
Webcollage client services."

Most Market Ready Application - 2015 InnovationFest - Answers Hackathon -
David Karandish, CEO of Answers
Feb 2015
"The Innovation Fest was a great success. Dan and his team impressed the whole contingent with their
use of the Alchemy engine. Thank you for your help in making the 48-hr event a showcase for some
cool things to come."