| John Dimm  Full Stack Lead and Data Engineer | horizontal line John Dimm 1153 Agate St  San Diego, CA 92109  LinkedIn: <https://www.linkedin.com/in/johndimm/>  Home page: <https://johndimm.vercel.app/> |
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| **Skills** | horizontal line   * MySQL, PostgreSQL, Lovefield * SQL query optimization * React and nextjs for front-end development * Serverless function apps on Azure * Data Pipelines and ETL processing * Amazon Alexa Skills * Google Chrome Extensions * Recommender systems |
| **Experience** | horizontal line   | **2020 - 2024** | **Gardyn** | **Staff engineer** | | --- | --- | --- |  * Gardyn sells a hydroponic indoor garden to grow food * back-end development of a python API * Javascript and Typescript serverless function apps hosted in Azure * time lapse videos created using ffmpeg * time lapse flipbooks  | **2020 - 2021** | **Galigo** | **CTO and co-founder** | | --- | --- | --- |  * Galigo is the continuation of Eleventh Hour * Membership portal for industrial organizations * Marketplace for green products  | **2020** | **Eleventh Hour Global** | **Software Engineer** | | --- | --- | --- |  * Topical Search Engine for green products * Likes, Comments, Recommendations * React, Redux, Express * PostgreSQL  | **2018 – 2019** | **Zuora** | **Senior Software and Data Engineer** | | --- | --- | --- |  * Utilization history for Insights * Revpro/Zuora Bookings Reconciliation * Cerebro data aggregator * PostgreSQL, Python, Angular  | **2015 – 2018** | **Acculitx** | **Senior Data Engineer** | | --- | --- | --- |  * FICO-like score for driving behavior * Responsible for all software development and operations * Based on accelerometer data from installed devices or cellphone * back-end: mySQL, python, php, celery asynchronous task queue * front-end: angular, react, jquery * hosted on Amazon Web Services * passwordless login  | **2011 – 2014** | **SYSTRAN** | **Director of Software Engineering** | | --- | --- | --- |  * A pioneer in Machine Translation * The engine that powered Babel Fish, the first online translation service * Merging statistical methods with a rules-based system * Named Entity Recognition  | **2008 – 2010** | **Photometria** | **Director of Engineering, Software Developer** | | --- | --- | --- |  * E-commerce using Amazon and linkshare * Facebook desktop widgets * Computer Vision algorithms in openCV and openGL * Google Maps mashups * Recommendations  | **2007 – 2008** | **Veoh Networks** | **Director, Search & Analytic** | | --- | --- | --- |  * Metrics * Video Recommendations * Hadoop, pig * Recommendations as Behavioral Search * Interactive drill-down reporting interface * Virtual Database management system * SQL on MySQL and Oracle * Data Warehouse * teams in San Diego and St. Petersburg, Russia * Reporting for large SQL Server databasesTools for management of hybrid human/computer classification * Support Vector Machines * Digital Fingerprint * as director, managed teams of 8 to 45 developers in San Diego  | **2000 – 2004** | **Websense** | **Chief Scientist, Director of Database and Reporting** | | --- | --- | --- |  * Tools for management of hybrid human/computer classification * Support Vector Machines * Digital Fingerprint * as director, managed teams of 8 to 45 developers in San Diego |
| **Education** | horizontal line **Princeton University**  * full fellowship in History and Philosophy of Science * Linguistics * Metaphysics: the problem of identity over time * Decision Theory: Newcomb's paradox * Logic, Model Theory * Frege and the Foundations of Mathematics  **University of Washington**  * Ethnomusicology * Philosophy * Linguistics * Mathematics * B.S. Mathematics, B.A. Philosophy * cum laude, Phi Beta Kappa |
| Products and Personal Projects | horizontal line  **2025: Ebay comics sold**   * Does a live query on ebay * Guesses whether a comic is “slabbed” or “raw” * Graphs sold price and asking price by grade   **2025: Long Tail and Collaborations**   * Extends the **Collaboration Graph Browser** * Browse IMDB movies by combinations of genres and dates   **2024: Wall of Comics**   * My collection of Marvel comics from the 60's * React/Nextjs * Extract stock cover photos and plots from the Marvel API * Filterpanel to slice and dice * Hosted on vercel  **2021: Collaboration Graph Browser**  * Extracted the list of musicians on an album from the musicbrainz database. * React/Nextjs UI * What were the musicians on this album doing before and after? * The same analysis was done on the public IMDb data for movies and tv shows.  **2021: Filterpanel**  * E-commerce uses filter panels as a powerful adjunct to search. * This npm package generates a filter panel from a JSON array * A React/Next app generates an appropriate JSON array from a CSV file * Very fast response * All analysis done on the client in javascript  **2019: TalkShow for Alexa**  * Alexa Skill for Echo Show of Fire TV Stick * Bing (Azure) image search * Flickr image search * Slideshow of found images * Available now on amazon.com  **2019: Breakdown for Mint and Personal Capital**  * Google Chrome Extension * Slice and dice financial data * React * Google's Lovefield javascript dbms  **2018: What Looks Good?**  * Yelp Dataset Challenge * structure from unstructured data * Python NLTK * React * MySQL  **2013: The Translating Telephone**  * continuous voice-to-voice translation * video conferencing using WebRTC * Bing or Systran translation * Web Speech API * Google Chrome browser * javascript  **2013: Interpreter**  * Hands-free continuous voice-to-voice translation on the web * Web Speech API * Bing Translator API * Google text-to-speech  **2013: TalkShow Story Illustrator**  * pictures of the things you’re talking about * Web Speech API * Alchemy API for NER  **2008: Veoh Discovery**  * Recommendations based on video viewing behavior * Behavioral search * Hadoop and Pig  **2004: Websense Explorer**  * interactive drill-down reporting interface * on-the-fly summarization * high volume log processing * Virtual Database management system  **1999: Topic Miner and Context Wrapper**  * LinguistX extracted noun phrases from free text * fuzzy matching to titles of encyclopedia articles * display of article images and text extracts as marginalia |

| Patents | horizontal line **2008: Search system using patterns of behavior (pending)**  * use of recommendation technology to implement a search function  **2007: System and method of monitoring and controlling application files (granted)**  * identification of Windows software by hashing executable files * removal of Import Address Table * C# program to facilitate the manual classification process |
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| Publications | horizontal line **2001: Presenting content one slide at a time (web techniques)**  * Javascript slideshows implemented 4 ways  **1991 : A tiny Windows Class Library (Programmer's Journal)**  * first published Windows class library * create a generic Windows app in five statements |
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