

John Dimm

San Diego, 2024

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Full Stack Lead and Data Engineer

Highly effective in roles ranging from SQL maven to full stack developer to hands-on manager to individual contributor.

(This is my short resume. For more, including links to live projects, please see the longer versions on my website.)

Skill Summary

- 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

Work Experience

2022 – 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 new name for 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 Acculix 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 & Analytics

- 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 databases

2000 - 2004 Websense Chief Scientist

- 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

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

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

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

Publications

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