

JEFFREY MEALO

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skills // experience //

JavaScript
Lua
PHP
Python
SQL
HTML5 / CSS3

FRONTEND
React
Vue.js
Browser Extensions
Material Design
UI / UX

DATABASE
PostgreSQL
MongoDB
MySQL
Redis
DBA / Replication

BACKEND
Node.js
API Integrations
REST / GraphQL
Message Queues
Pub / Sub

OPS / INFRA
Docker
Kubernetes
Serverless
CI/CD (Gitlab / Travis)
NGINX / OpenResty
LinuxFreeBSD
HAProxy
Consul / Hashicorp
NATS
Asterisk / SIP / VOIP
Minio / S3

CLOUD
AWS
Azure
Google Cloud Platform
Firebase
Virtualization

SOFT SKILLS
Mentorship
Leadership
Problem Solving

SOFTWARE ENGINEER WOLTERS KLUWER HEALTH // CONTRACT // NOV 2018 - JUL 2019

- Served as subject matter expert on Learning Tools Interoperability (LTI)
- Designed middleware to enable the early adoption of an unfinalized industry standard while maintaining backwards compatibility
- Improvised UX improvements boosted user confidence in bulk operations; users requested its system-wide implementation
- Triage/optimized tail latency in production reducing compounded performance issues as informed by New Relic
- Researched, prototyped and proposed solutions to reduce QA and accessibility testing costs for a SPA (single page application)
- Optimized docker usage; namely: improved front- and back-end test run performance, and increased cross-platform (Windows, Linux, OSX) developer productivity
- Tuned database performance by writing optimized raw SQL queries and influencing Doctrine ORM internals

SENIOR ENGINEER SLATE FOUNDATION / MATCHBOOK LEARNING // 2015 - 2018

Implemented a Node.JS module that streams real-time database changes from MySQL, PostgreSQL, MongoDB and Redis:

- Leveraged built-in replication protocols and binary logs for low-latency and minimal overhead to the database
- Configuration-driven plugins allowed the event stream to be published to NATS, Kafka and websockets without code
- Allows real-time end-user features and event streaming to scale independently of the underlying database

Moved sessions and authentication to the edge using OpenResty/NGINX and Redis:

- Allowed stateless microservices to trust incoming connections and retrieve session information via HTTP headers
- Reduced threat surface by protecting underlying infrastructure from rogue requests and reducing boilerplate security code.

Engineer methods to transition running production systems from relational monoliths to event-sourced microservices:

- Used temporal tables to capture changes and eliminate data loss during conversion to an append-only data schema.
- Generated unique request/correlation IDs in NGINX to provide end-to-end logging throughout the request lifecycle

SOFTWARE DEVELOPER COREDIAL // 2013 - 2015

Designed and developed "click-to-dial" plugins for Chrome, Firefox and Safari:

- Implemented non-destructive phone number tagging in dynamically loaded content and nested iframes.
- Created Grunt tasks to automate build, packaging and development workflows for each browser
- Reverse engineered a method to sign Safari packages on Linux to meet our CI/CD requirements

Worked on a team of 10 developers to convert a 350 screen legacy PHP app in 6 months:

- Developed a real-time call center dashboard using XMPP, Knockout.js and jQuery.
- Created reusable UI widgets and JavaScript components to rapidly implement new features globally.

FREELANCE CONSULTANT JARVUS INNOVATIONS // 2014 - 2018

- Automated export of student grades from a legacy ASP.NET application using PhantomJS and Node.js.
- Integrated with Google Apps for SSO and syncing of local users and groups using OAuth2.
- Migrated legacy FoxPro databases to PostgreSQL and checked for accuracy.

DIRECTOR OF DATA & ACCOUNTABILITY STRING THEORY SCHOOLS // 2012 - 2013

- Saved \$300,000 in first year infrastructure costs by engineering an open source networking stack
- Engineered a web content filter for 1:1 iPad deployment at 1/10th the cost of comparable solutions.
- Automated Google Apps administration using Python, Selenium and Node.js where Google's Admin SDK fell short.

SOFTWARE DEVELOPER HOUSEFIX // 2011 - 2012 // CONTRACT

- Designed an onboarding UI/UX that generated "point-in-time" help omitting steps that the user had already taken.
- Compiled a nationwide database of home improvement contractors with 99% accuracy using Node.js and MySQL.

open source // volunteer // education //

www.npmjs.com/~jmealo
www.github.com/jmealo
www.stackexchange.com/users/1410628/jeffrey

PHILLY TECH CAMP // 2013
Created SafestWay: a mobile app that routes around incidents of crimes to provide safe walking routes for students whose neighborhood schools were closed.

WEST CHESTER UNIVERSITY // 2012
Major: Business Administration
Minor: Business Geography (GIS)