

## Will LaBreche

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### Qualities

- **Leadership-Driven:** Able to manage and direct teams to successful outcomes
- **Excellent Communication:** Able to bridge technical & managerial teams
- **Polyglot Programmer:** Interpret and consult in multiple codebases across teams
- **Problem-Solver:** Building real-world solutions daily using logic and code
- **Full Stack:** Understanding network, hardware, and software integrations
- **Organization:** Precision planning and unparalleled project execution
- **Fast Learner:** A very quick study & adaptive to new, ever-changing environments

### Experience & Featured Projects

#### **Product Manager, Customer Integrations / Software Engineer II**

##### **Data Science & Business Analytics Team**

C.H. Robinson Worldwide, Inc.  
Eden Prairie, MN | 12/18 - Current

Central to my role is working with data scientists, data architects, DevOps, and other engineers in conceptualizing and programming software tools that assemble, wrangle and deliver data to and from internal and external resources.

As a Python-centric full stack engineer, I design and program scalable, Dockerized applications across on-prem and cloud-based Linux environments. Building on an array of data science models and machine learning tools, I rapidly prototype applications, create and maintain API services in a big data environment, and work within a variety of data warehouses and ETL pipelines.

Specific to my role as Product Manager of Bot Integrations and Intelligent Process Automation (IPA), I manage a highly-specialized team within data science that drives data science products to market. We deploy custom, scalable bots and AI-driven automation tools for account teams across the company. These applications mine, capture, sanitize and ingest data from disparate systems, make decisions based on supervised learning algorithms, and act autonomously on outcomes with little to no human intervention. Bots and operational AI have opened new revenue streams in very competitive markets by automating customer interactions, building efficiencies in decision-making across teams, and responding to market opportunities 24/7 with 100% coverage and engagement.

As the team's automation lead, I work with executive leadership and internal teams to identify and plan new automation initiatives - bridging engineering, data science, business analytics, account teams, and IT groups in moving projects into production. As a "player/coach," I not only oversee the integrations team but also code extensively alongside our engineers and some of the most brilliant minds in data science.

I also head an internal team of software engineers to performance test and benchmark the company's data science products, such as pricing and rating services. My team is responsible for load testing and documenting the scalability of applications and developing benchmarking standards and analysis tools.

#### **Senior Full Stack Developer & Software Engineer**

iBuyOfficeSupply | Weber Computer  
Plymouth, MN | 03/17 - 12/18

Develop, maintain and enhance software for administrative, Web and cloud-based applications using Python. Provide programming support and management of a product catalog of over 75,000 products and data systems containing over 75 million records across

three large Magento ecommerce sites in the U.S. and Canada. As lead programmer and developer I fulfill multiple roles and manage numerous projects concurrently. Above all, I use code everyday to solve both simple and complex problems; to clean, package and port data between systems; and automate processes with the goal of building efficiencies in Web-based and real-world scenarios.

- Responsible for engineering, developing and automating vendor EDI and RESTful API flows that generate Netsuite sales orders, process customer data, issue shipping fulfillments, and transmit invoices. My EDI software handles hundreds of inbound and outbound data transmissions per day with drop-ship wholesalers and GSA / federal government agencies.  
**Stack: Python 3.6 | API Integration | Bash / SSH Scripting | JavaScript | SQL | Docker (Linux)**
- Using Python, I build and automate numerous internal applications that reduce order handling and have yielded a sales increase of 30-40% across Web and govt. contract customers, with sales tracking to surpass \$22M in 2018. Due to this success the company hired additional CSR support in early 2018 and went from processing 50 orders a day to over 150 on the back of my software.
- Engineer and program complex Web scraping tools that aggregate competitive pricing from resources across the Internet. This data is held in a local machine learning environment that provides pricing recommendations to management, who can also search competitor SKUs real-time for immediate price reporting.  
**Stack: Python 3.6 | API Integration | Docker (Linux) | SQL | Python Flask | Git VCS**
- Designed and programmed a Python application that changes pricing for 137,000 products in minutes across Netsuite, Magento, Google Shopping PLAs, and Bing Merchant Center. Agile price management means the company can quickly change pricing in response to competitors' moves in the marketplace.  
**Stack: Python 3.6 | API Integration | SQL | JavaScript | Bash / SSH Scripting | AngularJS**
- The Python programs and applications I engineer are scalable to the needs any given project. From handling a few requests, to managing hundreds of data queries a second, my software is able to scale-up to meet the demands of the project. I also code for portability of Python applications deployed from virtual environments and/or Docker containers across diverse operating systems, servers, or cloud systems.
- Engineered and programmed a complex, integrated EDI Web application that updates ecommerce inventory for 200,000 products 12 times daily in less than 3 minutes each run. This synchronizes inventory to vendor stock levels near real-time to support three front-end Magento EE storefronts.  
**Stack: Python 3.6 | PHP7 | SQL | Python Django 2 | Linux | Git VCS**

## Web Developer & Programmer

Creekbed Digital, Inc. | creekbeddigital.com  
Greater Mpls/St Paul | 02/08 - 09/19

I founded Creekbed Digital in 2008 as a private, boutique design and development company. As lead developer and project manager, I have deployed over 225 website, application and data projects. With aggressive growth in the Midwest market, my work has earned the business of over 75 satisfied clients. I personally oversee all budgeting, creative concepts, programming and design for each project and work one-on-one with clients, many in an IT and dedicated developer role to their companies. My responsibilities are to contract new business and manage existing clients, while working with various outsourced vendors in the delivery of our work.

- Programmed a real estate listings application that retrieves property data, pictures and other details from a remote SOAP / XML service provided by the Wisconsin Multiple Listings Service (MLS). This data is warehoused, updated four times daily and is used by over 10 real estate offices in northwest Wisconsin to populate their front-end websites.  
**Stack: Python 3.4 | SQL | JavaScript | Python Flask | Linux | Docker (Linux)**
- Working together with teams from the Wisconsin Dept. of Transportation and the American Indian Chamber of Commerce, I engineered a tribal business directory for participating tribes to post RFPs to member contractors throughout the state of Wisconsin. These contractors register, self-publish, and manage their profiles using our program and are alerted when RFPs are posted. This addresses a long-time need to connect qualified contractors with jobs, specifically on tribal reservations, and to provide tribal personnel with a tool to search and locate contractors in their areas.  
**Stack: PHP7 | SQL | JavaScript | Linux | Python 3.6 | Git VCS | Linux**

- Served as project lead and developer to Pawn America and its 24 store locations across the Midwest. After four larger agencies failed, I came into the project and got them up and running with a new ecommerce website and companion mobile application that made entering product on the site easy for store personnel. Using my application, store managers helped propel the new site with 50,000 unique products within the first month. Having the 24/7 storefront in the commerce site opened a new line of revenue for the company that was quickly showing returns.  
**Stack: Python 3.4 | SQL | Python Flask | Magento 2 | PHP7 | JavaScript | HTML5**
- Web developer and programmer for Lac Courte Oreilles Band of Lake Superior Chippewa Indians from 2010 - 2015. Created inter-departmental employee portal, designed front-end UX for 12 tribal departments, tribal casino, and schools. Introduced new technologies to communicate Tribal Governing Board news to community members and the general public.  
**Stack: Python 3.4 | SQL | Python Django | PHP7 | JavaScript | Git VCS | HTML5**

## Education

Grad School, University of Nebraska Omaha  
Digital Communication & Multimedia  
2003 - 2008

B.S., Communication & Media Studies  
University of Wisconsin, Superior  
2001

## Memberships

Python Software Foundation (2017)

Academy of Model Aeronautics (2014)

## Full Stack Technology Summary

### Software & Language Proficiency

#### Python 2 & 3+

django 2 flask  
scrapy phantomjs  
jupyter numpy  
anaconda pymysql  
beautifulsoup venv  
openpyxl threading  
multiprocess pandas  
sqlalchemy selenium  
opencv pytest  
Natural Language Processing  
Advanced OOP Programming

#### JavaScript

#### PHP 5.6, 7

#### Structured Query Language (SQL)

#### Bash / SSH Shell Scripting

#### HTML5 / CSS3

#### Platform & Mobile UI Development

#### Windows System Programming

#### Bootstrap 3 & 4+

#### React.js (basic)

### Data Services & Database Systems

#### SQL / MariaDB

#### Apache Kafka

#### JSON

#### SOAP / XML-RC

#### EDI X12

#### Redis

#### PostgreSQL

#### API Architecture & Programming

#### Data Tokenization & Encryption

#### RESTful Flask APIs

#### MongoDB

#### MSSQL Server

### IDEs & Tools

#### PyCharm Professional IDE

#### GitHub Atom

#### Eclipse IDE

#### Notepad++

#### MySQL Shell

#### PhpStorm Professional IDE

#### Microsoft Visual Studio 2019

#### SQL Server 2017

#### vi / Vim

#### Swagger

### Network & Cloud Services

#### Jaeger (Distributed Tracing)

#### Docker / DockerHub

#### Networking & Data Encryption

#### Apache Airflow / CRON Scheduling

#### Microsoft Azure DevOps

#### GitHub Enterprise

#### ZenHub (Agile Project Mgmt)

#### Locust (Load Testing Platform)

#### DigitalOcean Developer Cloud

#### SSH / Shell / CLI

#### Git (VCS)

#### Virtual Environments

#### Jenkins (CI/CD Pipelines)

#### ElasticSearch Kibana (Monitoring)

#### Celery (Async Distributed Queue)

#### Kubernetes (basic)

### Data Science & Machine Learning Tools

#### Jupyter / Anaconda

#### Pandas

#### Numpy

#### Matplotlib

#### scikit-learn

#### Tensorflow